

VOL. 74

NO. 9

Turn to Page 59 of this issue for a preview in print of the 15th Southern Textile Exposition, which is to be held Oct. 4-9 at Greenville, S. C.

L. J. N. C.

Greenville R. R.

# textile bulletin

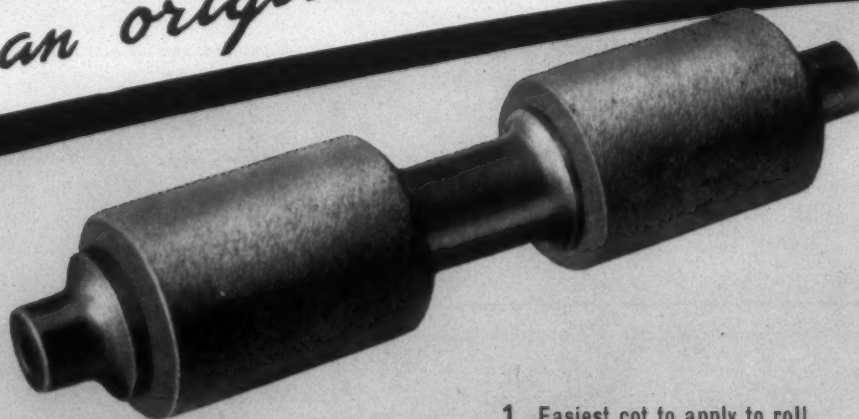
SEPTEMBER • 1948

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The Best Feature about  
our Cork Cot is  
an original **SONOCO** principle



Since the first cork cots were introduced, SONOCO pioneered and developed its original construction, incorporating the gummed cloth inner-lining because of these 4 advantages—

- 1 Easiest cot to apply to roll.
- 2 Positive adherence via seamless gummed cloth lining.
- 3 Uniform density via bonded cork cushion.
- 4 Smooth running long life due to uniform wear.

### SONOCO PRODUCTS COMPANY

BRANTFORD  
ONT.HARTSVILLE  
S. C.MYSTIC  
CONN

DEPENDABLE SOURCE OF SUPPLY



REG. U. S. PAT. OFF.

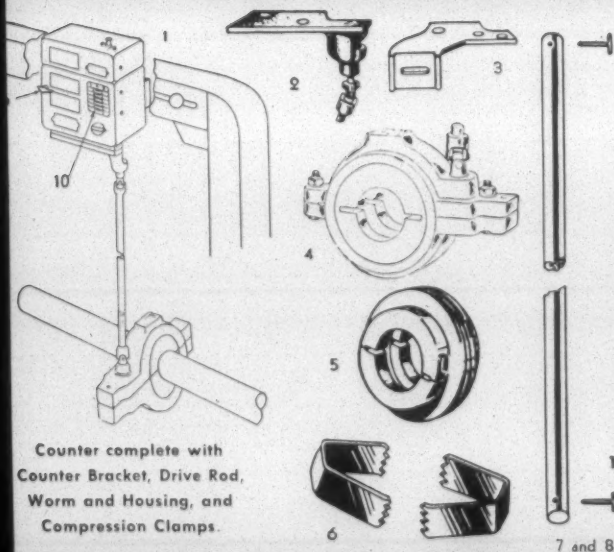
Veeder-Root Vantage-Points

When you buy  
**VEEDER-ROOT**



**PICK  
COUNTERS.....**

**you get  
all these parts  
necessary for  
complete installation**



1. Pick Counter.
2. "BQ" Counter Bracket.
3. Cast-Iron Loom Bracket (several styles).
4. Worm Housing } Complete.
5. Worm }
6. Compression Clamps (for Shafts of 1 9/16", 1 11/16", 1 13/16", 1 15/16", 2 3/16", 2 7/16". Pin type drive furnished on all other sizes).
7. Drive Rod, 5/16" Cold Rolled Steel, Drilled.
8. Pins for Fastening Drive Rods into Universal Joints.
9. Yale Lock and Key.
10. Production Record Card. Plus all necessary Bolts, Nuts and Counter Seals.

(Alemite Lubrication Fittings can be furnished on request)

This complete installation is the 15th Vantage Point of Veeder-Root 2-3 Convertible Pick Counters.

For full details on all 15 Vantage Points, call your nearest Veeder-Root representative.

### VEEDER-ROOT INC.

HARTFORD 2, CONNECTICUT GREENVILLE, SO. CAROLINA  
Offices in: Boston, Chicago, Cincinnati, Cleveland, Detroit, Los Angeles, New York, Philadelphia, Pittsburgh, St. Louis, San Francisco, Montreal, Buenos Aires, Montevideo, Mexico City. In England: Veeder-Root Ltd., Dickinson Works, 20 Purley Way, Croydon, Surrey. In Canada: Veeder-Root of Canada, Ltd., Montreal.

Quickly Convertible from 2 to 3-Shift Operation . . . Right in your Mill

BOOTH 107 — SOUTHERN TEXTILE EXPOSITION

**VEEDER-ROOT**  
**2-3**  
**Pick Counters**



# NOW



**T**rucks, Trains, Ships and even Planes deliver high speed Draper Automatic Looms to every corner of the Earth. Mills know that when they buy Draper Looms, they are buying proven performance—are assuring themselves of more cloth at less cost.

They know, too, that they are buying Draper experience—experience attained through 132 years of building labor saving machinery for the textile industry.

Progressively, since the introduction of the automatic loom 54 years ago, Draper experience has given you more cloth at less cost. It is your insurance for the future.

Retaining  
Leadership

## DRAPER CORPORATION

Hopedale, Massachusetts

Through  
Research

Now Mill Tests Prove

# DAYCO ROLL COVERINGS

spin more uniform yarn with less  
lap ups and fewer ends down!

**Test With 264 Spindles Equipped With Daycos...  
272 Spindles With Brand "C" Coverings**

47.6% fewer ends down with *Daycos*! That's the result of a test conducted in a large yarn mill in central North Carolina. Again, *Daycos* outperformed the competitive roll covering when run under identical circumstances of frame condition, temperature, relative humidity and with the same kind of yarn. As a matter of fact, *Daycos* are unaffected by temperature or humidity changes... their superior physical properties remain constant throughout their long, trouble-free life.

**Test of 1,134 Spindles...Covering 13,261 Sp. Hrs.**

Dayco Roll Coverings showed fewer lap ups on top and bottom rolls and 11.7% less unclassified ends down. Actually, there were three times more lap ups on the bottom rolls where Brand "A" roll coverings were used—although all the steel rolls had just been re-used and were in top operating condition. This is on-the-job proof that, in test after test, under actual operating conditions, in mill after mill, Daycos run more uniform yarn with up to 50% fewer ends down.

**North Carolina Mills Test 35.4% Less Ends Down With Dayco Roll Coverings**

This test was run on frames making 24-1/65% cotton and 35% acetate staple. Despite the fact that the Dayco Roll Coverings outperformed a similar type covering on lapping, unclassified ends down and total ends down. Too, the Dayco coverings did not eyebrow while Brand "B" coverings eyebrowed greatly. Another typical example of how Daycos, built for their specific job, assure perfect drafting uniformity ... at the lowest cost per frame.

**7 MORE REASONS  
WHY YOU SHOULD USE DAYCOS**

- 1 Remove more of the foreign elements from the yarn.
- 2 Not affected by temperature or humidity changes.
- 3 Oil-resistant and static-free.
- 4 Daycos' surface drafting properties improve with use.
- 5 Daycos will outlast other type roll coverings.
- 6 Equally efficient for natural and synthetic fibers.
- 7 Easy to apply.



In mill after mill... test after test... under actual mill operating conditions, it's the Dayco frames that consistently produce the most uniform yarn at the lowest cost per frame. It's no wonder mills everywhere are insisting that every frame be 100% Dayco-equipped. Whether your frames are equipped with flat or revolving clearers, there's a specially engineered Dayco to run natural or synthetic fibers... better, more economically. Let them prove themselves on your frames. Send your order direct to The Dayton Rubber Company, Textile Products Division, Woodside Building, Greenville, S. C.

**Dayton Rubber**

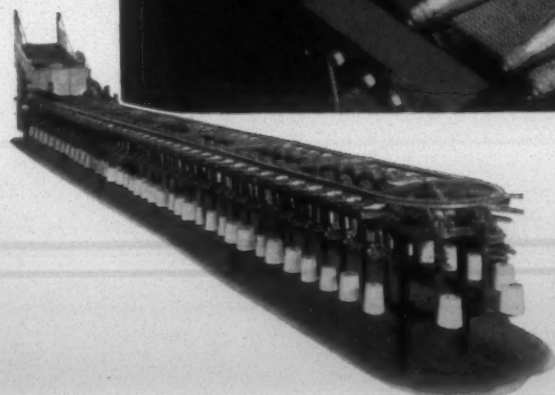
ONLY **1** Automatic Head  
PER 100 SPINDLE MACHINE!

*Cut your maintenance  
costs with* **ABBOTT**  
**Automatic QUILLERS**

- A—Abbott automatic head
- B—Empty bobbin feed
- C—Empty bobbin being released into traveling spindle unit
- D—Full bobbin being doffed
- E—Building bunch
- F—Full bobbins on conveyor belt

Get  
Lower Cost Operation  
WITH THIS FULLY AUTOMATIC  
MACHINE MADE ONLY BY

**ABBOTT**



Write for further information to:

**ABBOTT MACHINE COMPANY**

FACTORY AND MAIN OFFICE:  
**WILTON, NEW HAMPSHIRE**

SOUTHERN OFFICE: GREENVILLE, SOUTH CAROLINA



## ***Ready to Go!***

Ready for shipment from stock are these and other hard-to-obtain textile parts, such as clutch gears, worm gears, comb box forks, lickering shields, bobbin and spindle plate and coupling gears, mote knife brackets, grinding roll brackets, and stripping brush brackets.

We can promise *quick delivery* on such items. Send us your order *today*. All orders will be handled the date they are received. Don't be late with yours.

**Southern States**  
HOME OFFICE AND FACTORY



**Equipment Corp.**  
HAMPTON, GEORGIA

**HENDERSON FOUNDRY & MACHINE COMPANY DIVISION**

*Largest Manufacturer of Cast-Tooth and Cut-Tooth Gears in the South*

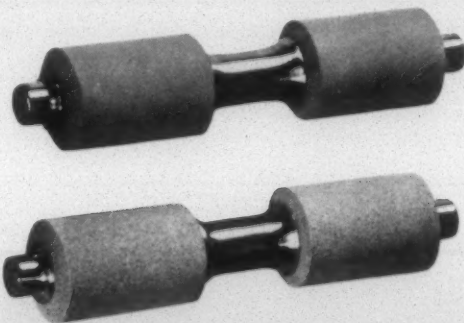
# Accotex Aprons wear uniformly

## ACCOTEX COTS . . . by the makers of Accotex Aprons

Armstrong's NC-727 Accotex Cot gives you the advantages of both synthetic rubber and cork. This combination of toughness and high friction provides maximum eyebrow resistance in a synthetic cot. It also results in better drafting, high yarn strength, less slicking up. In addition, Accotex Cots offer long initial service life. They can be rebuffed 5 or 6 times.

Armstrong's J-490 Accotex Cot is outstandingly superior in resistance to top roll laps. You can prove this right on your own frames. It is the cot to use where lapping is a serious consideration when running either wool or synthetic fibers on standard cotton system equipment.

Armstrong's Accotex Cots are now serving more spindles than any other roll covering. In addition to the NC-727 and the J-490, Accotex Cots are made in other formulations, with and without cork, for special services. Ask your Armstrong representative for recommendations on the best type for your particular work.



**ACCOTEX COTS**  
**CORK COTS**

Armstrong's Accotex Aprons are available for single apron and double apron types of long draft equipment, for roving as well as spinning frames.



## You get increased production of quality yarn

**YOU NORMALLY NEED** replace aprons only at regular overhauling periods when you run on Armstrong's Accotex® Long Draft Aprons. Each one wears uniformly. Each is made of a tough synthetic rubber compound controlled during manufacture to eliminate the variations normal in a natural product. With Accotex on your frames, production keeps running—and running smoothly.

Accotex Aprons are seamless, too. The special Accotex Apron construction, originated by Armstrong, uses heavy layers of synthetic rubber to enclose a strong, non-stretch interliner. This provides added assurance that these aprons will not tear, break open, or stretch while they are in service.

Since Accotex Aprons will not crack or scuff, they help produce cleaner-running work with less waste. These aprons are not affected by temperature or humidity. They perform with a minimum of lapping. And the smooth, uniform surface of Accotex Aprons insures better drafting and good fiber control.

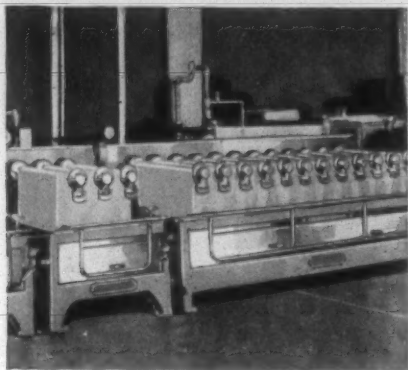
Check all the advantages of these uniformly wearing aprons on your own frames. See how Accotex Aprons help you step up yarn quality and increase poundage. Ask your Armstrong representative for samples, prices, and additional information. Or write today to Armstrong Cork Company, Textile Products Department, 8209 Arch St., Lancaster, Pennsylvania.



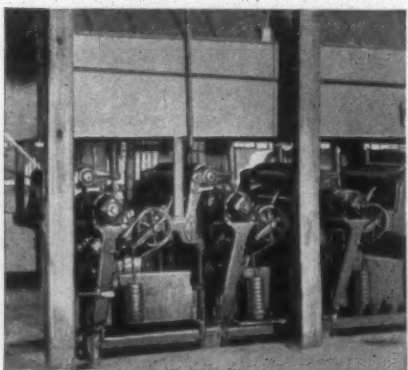
# ARMSTRONG'S ACCOTEX APRONS

HOW THESE OPERATIONS

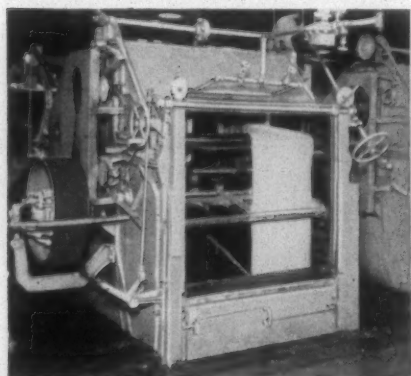
CAN GIVE YOU THESE RESULTS



COTTON BOIL-OFF



SOAPING OFF PRINTS



FULLING AND SCOURING

#### Clean, Absorbent Cottons!

It is usually unnecessary to kier boil cotton yarn. Often a less severe open boil-off may be used. In the latter case, ARMOUR'S ENERGETIC has proved most successful. ENERGETIC is a liquid, nonionic type of synthetic detergent with excellent washing properties. ENERGETIC is unaffected by hard water, easily rinsed and effective in very low concentrations. And ENERGETIC provides remarkable suspending power for removing natural cotton impurities.

#### Clear, Bright Prints!

After printing and aging, cotton prints must be washed to remove the stiffening effect of the starches and gums used in the printing operation. This job normally calls for high temperatures and maximum detergent action. FLINT, a tallow soap especially formulated for high temperature work, is most effective in this operation. It removes the relatively large amount of gums present and also gives the goods a uniform feel or handle. FLINT thus assures clearer, cleaner, brighter, sharper prints—and more attractive fabrics!

#### Soft, Resilient Worsteds!

In fulling worsteds, you need a light fulling and scouring action. That's one of the reasons why Armour's CERTIFIED is the best soap for this job. CERTIFIED provides body for the fulling operation and also for suspending and carrying away the oils applied in the spinning process. CERTIFIED's easy solubility and good rinsability guarantee clean, resilient goods.

Remember, There are Armour Soaps and Synthetic Detergents  
to Solve All Your Textile Problems.

**ARMOUR and Company**

*Industrial Soap Division*



1355 WEST 31ST STREET • CHICAGO 9, ILLINOIS

*Color Lends Warmth to Beauty*

For Winter Sportswear  
as Colorful as Confetti

Specify

*National Aniline Dyes*

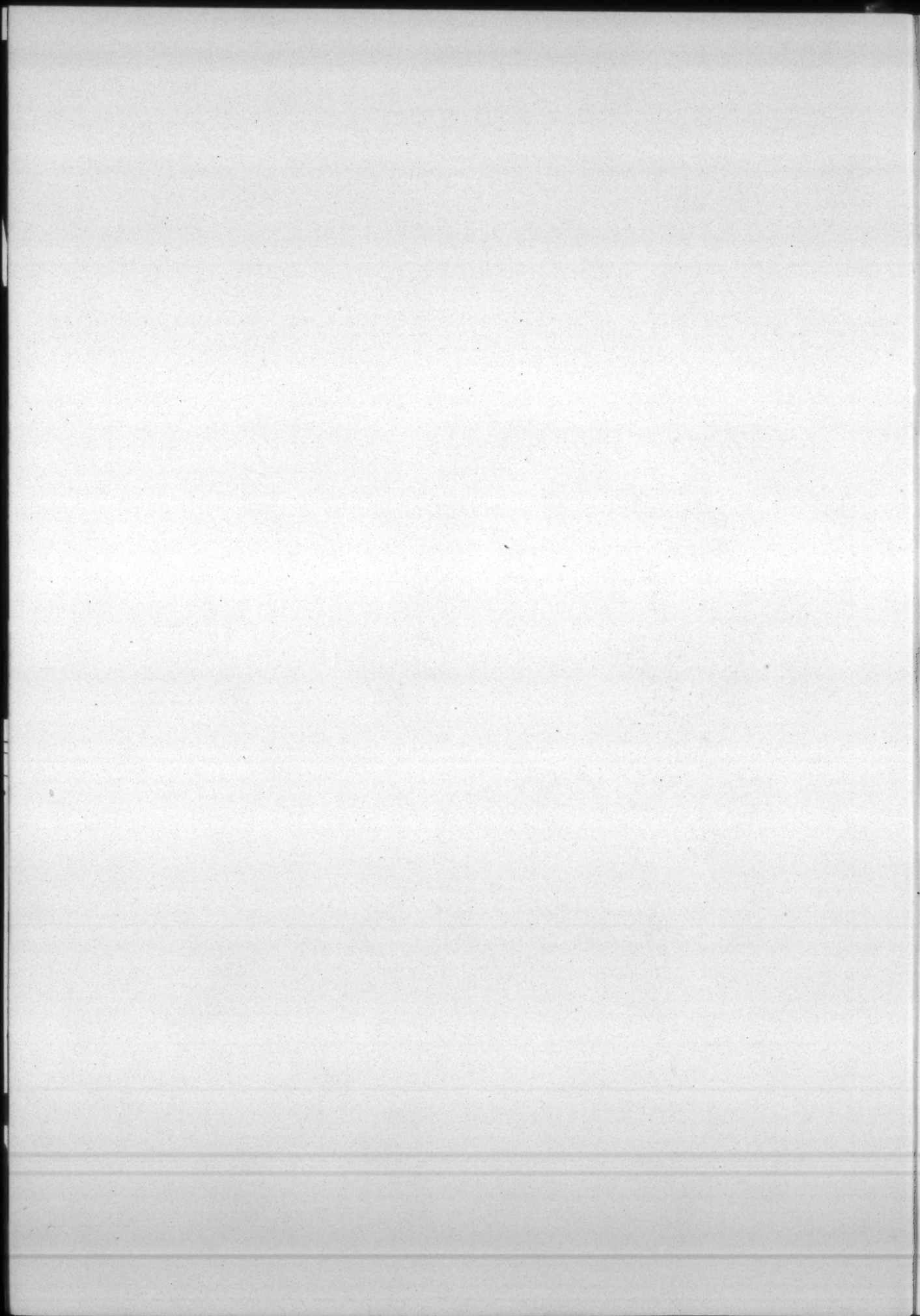
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ALLIED CHEMICAL & DYE CORPORATION

40 RECTOR STREET, NEW YORK 6, NEW YORK

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"SKILLED LIGHTING" PRESENTS THE

*New,  
IMPROVED  
TURRET LINE  
FLUORESCENT UNITS*



*FEATURING  
THE UNIQUE, NEW  
G.E. TURRET  
LAMP HOLDERS*

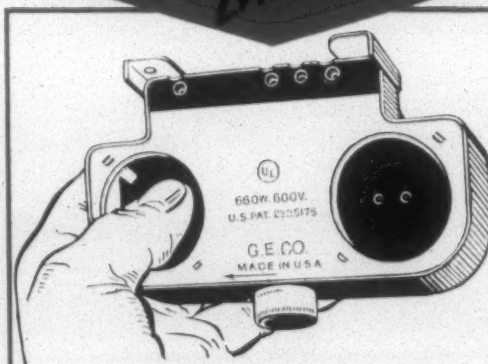
## An Ideal Heavy-Duty Fixture for Industrial Lighting Applications

THIS IMPORTANT ADVANCE in light engineering embodies all the quality refinements of "Skilled Lighting" plus an ingeniously designed lampholder that adds new convenience and protection to fixtures. It is typical of Wheeler "Skilled Lighting" . . . known throughout industry for its sound, lasting developments over a period of 67 years.

The new Turret Line has the famous Wheeler Vitreous Porcelain Enamel finish . . . easy to clean and keep clean . . . impervious to the elements. It is designed to meet RLM Standards—also for all standard types of suspensions and for individual or continuous runs. Easily accessible starter receptacles built into turret sockets. Sockets enclosed in steel housing for added sturdiness. The new Turret Line units are available for two or three 40-watt lamps.

Investigate this new, improved line before you specify any fluorescent fixture. For complete information, write Wheeler Reflector Co., 275 Congress St., Boston 10, Mass.

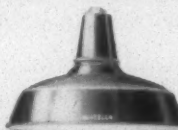
*Distributed Exclusively Through Electrical Wholesalers*



### CONSTANT SPRING TENSION

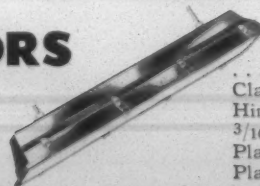
You can count on this feature to keep your lamps securely in place. Vibration won't jar them loose or cause poor connections. Yet you can install or remove them with the greatest of ease—and without breaking sockets.

The new lamp holder is ruggedly made to withstand rough handling. It is one of the money-saving, trouble-saving features of the new Wheeler Turret Line.



### RLM SOLID NECK INCANDESCENT REFLECTOR

Maximum lighting efficiency indoors and out. Expertly designed, ruggedly built. Vitreous enamel only. 75 to 1500 watts.



### SERIES II, DUST-TIGHT UNITS

. . . for Class II, "Group G & F" and Class III and IV hazardous locations. Hinged, gasketed cover. Supplied with 3/16" Thick Sheet Glass, Water-White, Plate Glass, or Tempered-Clear Safety Plate Glass.

MADE BY SPECIALISTS IN LIGHTING EQUIPMENT SINCE 1881



**M**any cotton mills have found it profitable to consult Corn Products textile laboratory at Greenville, South Carolina.

The services of our technicians are offered textile manufacturers without obligation.

**CORN PRODUCTS SALES COMPANY**  
Greenville, S. C. • Greensboro, N. C. • Atlanta, Ga.

## Premier Showing at the Southern Textile Exposition

# HUNT COTTON AND RAYON LOOMS

*hit of  
the show!*

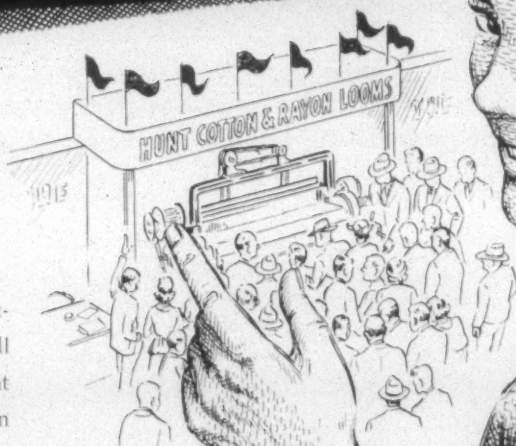
Perhaps the most interesting machinery exhibits at the Southern Textile Exposition will be the latest high speed models of the Hunt Rayon Filament Loom and the Hunt Cotton Loom.

As the only looms originally built with Hunt Spreaders and Hunt Individual Motor Drives, each is outstanding in its field. Both contribute greatly to higher speed production and better quality cloth output.

The Hunt exhibit will also feature Hunt Spreaders and Hunt Individual Motor Drives as attachments for looms of other makes; and there will be a showing of the complete line of Hunt textile equipment.

TOURS OF HUNT MACHINE WORKS will be a pleasant feature of your visit to the Southern Textile Exposition. Guides will show you the interesting equipment and operations in the manufacturing of Hunt textile machinery.

We cordially invite you to visit our booths and our plant during the Southern Textile Exposition, in Greenville, S. C., October 4th-9th, 1948.



VISIT US AT  
BOOTHS  
128,129,130



### HUNT MACHINE WORKS, Inc.

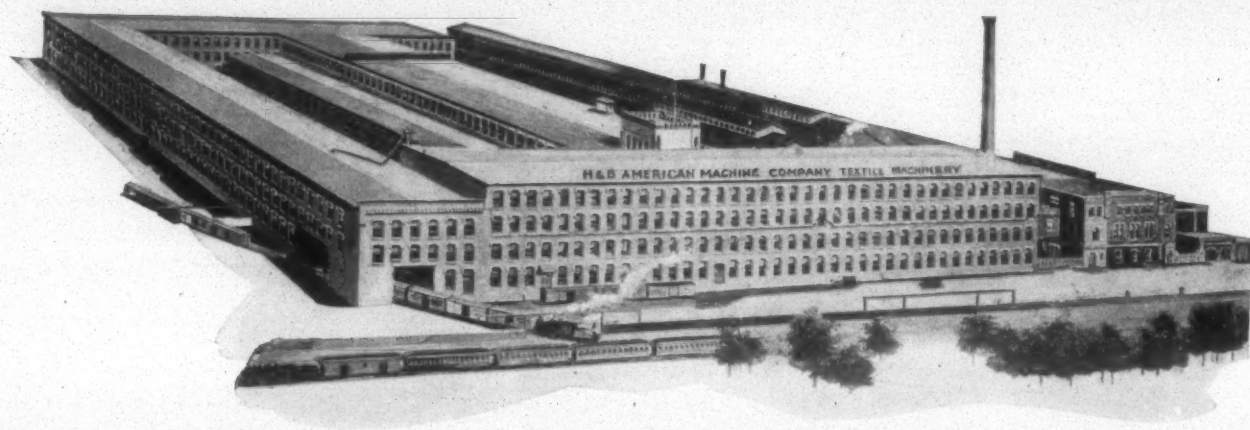
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GREENVILLE, SOUTH CAROLINA

# H & B

# MODERN



PLANT AT PAWTUCKET, R. I.

Quality machinery for the textile industry has been the achievement of H & B for more than 50 years. By careful planning from the beginning, in engineering, materials and production, we have

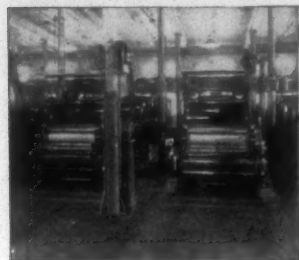
continually built machinery for each specific job in each individual mill. Attention to detail, to the LITTLE things, has truly made a BIG difference.

# H & B AMERICAN

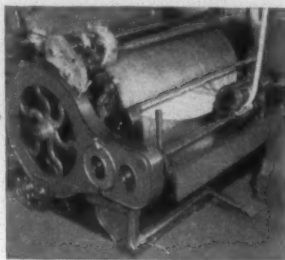
*Builders of Modern*

FACTORY, EXECUTIVE OFFICES AND EXPORT

# TEXTILE MACHINERY



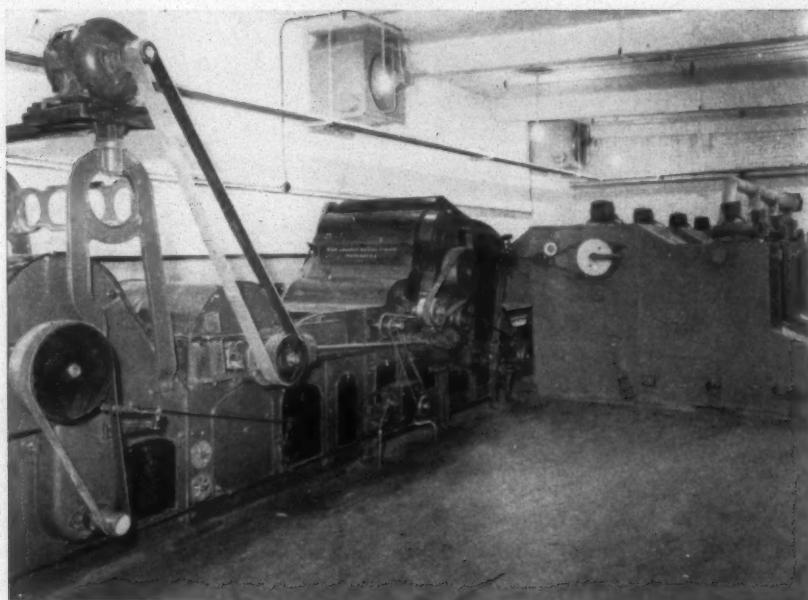
PICKERS



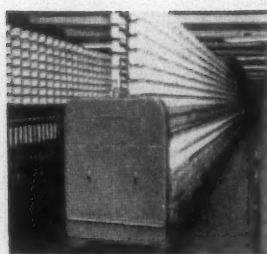
CARDS



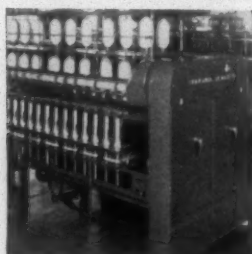
DRAWING FRAMES



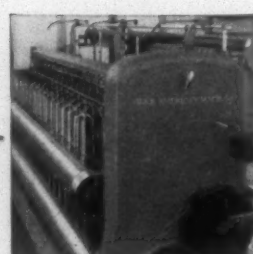
OPENING EQUIPMENT



TWISTERS



SPINNING FRAMES



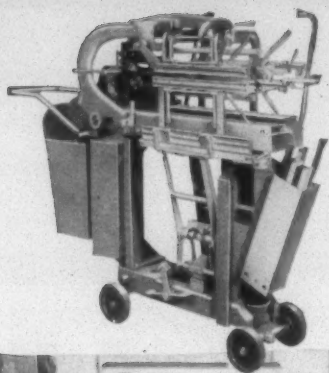
SPEEDERS

## MACHINE CO.

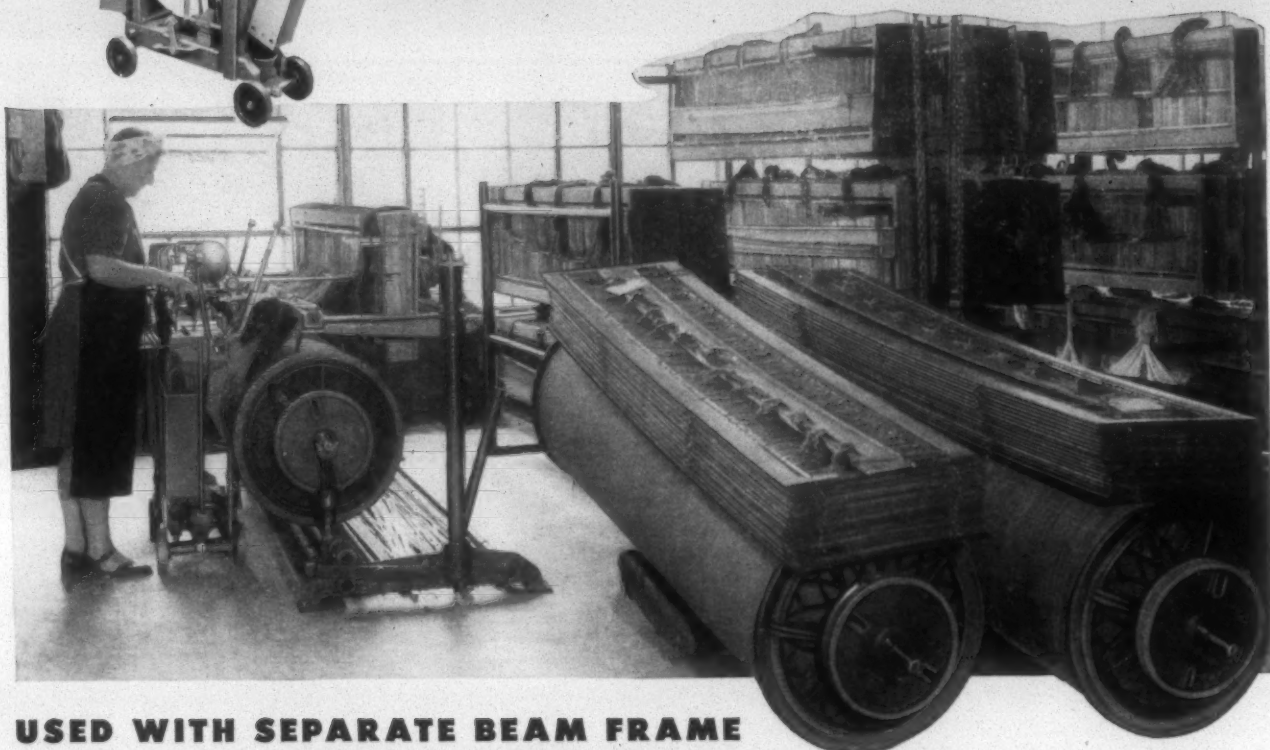
*Textile Machinery*

DIVISION PAWBUCKET, RHODE ISLAND U.S.A.

BRANCH OFFICES  
ATLANTA, GA.  
815 CITIZENS AND SOUTHERN  
NATIONAL BANK BUILDING  
CHARLOTTE, N. C.  
1201 JOHNSTON BUILDING



# BARBER-COLMAN *Portable* WARP TYING MACHINE



**USED WITH SEPARATE BEAM FRAME  
AWAY FROM LOOM ENABLES MILL TO  
TIE-IN AND STORE EXTRA LOOM BEAMS**

## ONE SHIFT ON WARP TYING MACHINE MAKES UP BEAMS FOR TWO SHIFTS ON LOOMS

The weave room for this mill gets its entire warp replenishment from the tying-in department shown above. Here the ends left in the lease and the ends on the new warp are joined. The beams, with proper harnesses and reed all tied-in, are placed on dollies and lined up for delivery to the weave room. Warps with closed drop wires can also be tied; open-end drop wires are replaced at the loom.

While this arrangement requires additional investment in harnesses and beams, in

many instances it will pay off in reduced loom down time, when circumstances are suitable. Certain kinds of work should be tied-in at the loom, but often there are cases where tying-in away from the loom will produce substantial savings.

In this mill, the warp tying machine operator is able to prepare beams twice as fast as they are needed in the weave room — with the result that the tying-in department works only one shift to two on the weaving. The extra beams are made up and stored until called for. Note the racks in the background of the picture; they hold leases for various patterns not currently in production, with the ends cabled and

knotted ready for combing out and tying-in when wanted.

The Barber-Colman Portable Warp Tying Machine with supplementary Beam Frame is an ideal unit for this set-up because of its speed and flexibility. An average operator can tie up to 4000 ends an hour with this machine, depending on material, and can handle a wide range of counts with only minor adjustments. Barber-Colman Portable Warp Tying Machines are made in several models for all types of yarns — cotton, wool, or synthetics in flat sheets or end and end leases. For details of operations and specific suggestions for application to your work, we suggest you consult your Barber-Colman representative.

**AUTOMATIC SPOOLERS • SUPER-SPEED WARPERS • WARP TYING MACHINES • DRAWING-IN MACHINES**

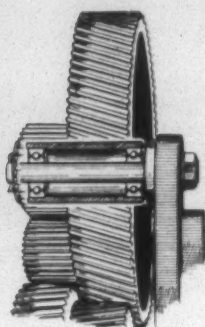
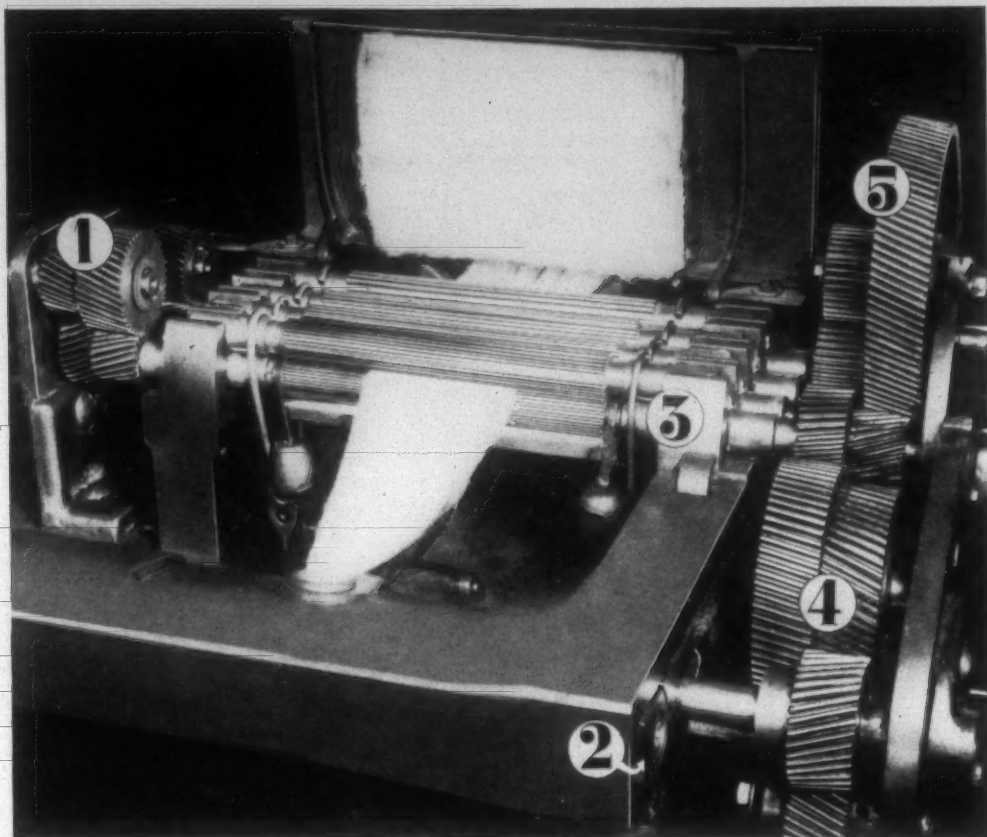
**BARBER-COLMAN COMPANY**

**ROCKFORD • ILLINOIS • U. S. A.**

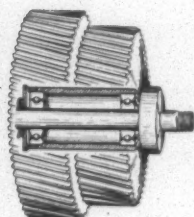
FRAMINGHAM, MASS., U. S. A.

GREENVILLE, S. C., U. S. A.

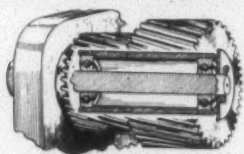
MANCHESTER, ENGLAND



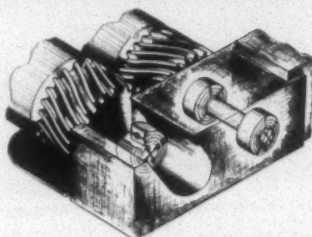
No. 5—Crown Draft Assembly



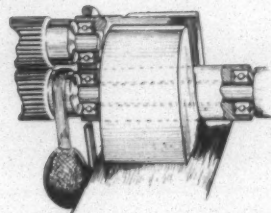
No. 4—Crown Tension Assembly



No. 1—Brake Draft Gear Assembly



No. 2—Calendar Roll Bearings Assembly



No. 3—Bottom and Top Drawing Roll Assembly

## Introducing IDEAL HIGH-SPEED DRAWING

**LOWERS VARIATION**

**INCREASES BREAKING STRENGTH**

**DOUBLES PRODUCTION**

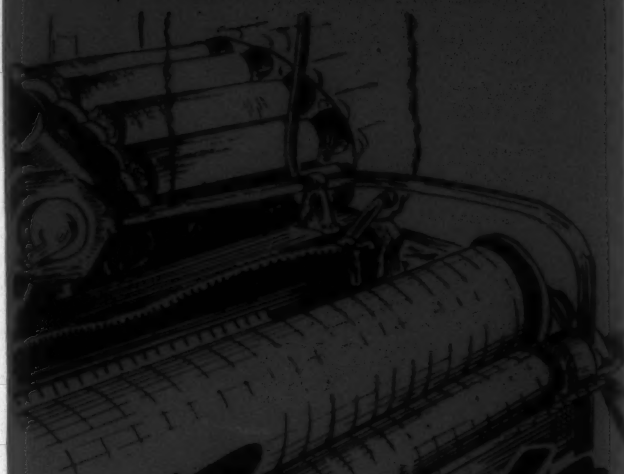
- ★ Illustrations No. 1, 2, 3, 4, and 5 are all sealed ball bearings, including top and bottom rolls.
- ★ Conventional collars have been replaced with ball bearings. Frame can be operated with conventional 6 ends up at back, or from laps 18 ends up. Full 10" flutes.
- ★ All fluted rolls are hardened and ground.

See This Revolutionary Ideal Ball Bearing Drawing At The  
S O U T H E R N T E X T I L E E X P O S I T I O N  
Balcony Floor + + + Booths No. 325 - 326, or Write Direct

# IDEAL INDUSTRIES, INC.

BESSEMER CITY, NORTH CAROLINA

There's a *Reason* why  
**NON-FLUID OIL**  
 is preferred



in **7 out of 10**  
**CARDING ROOMS**

... And the reason is this: **NON-FLUID OIL** stays in bearings until entirely consumed . . . instead of dripping and leaking like liquid oil. **NON-FLUID OIL** protects the close and accurate adjustment of Doffer and Top Flats insuring stronger, cleaner, more even sliver. And you save money, too, because **NON-FLUID OIL** goes 3 to 5 times farther than ordinary oil. Send for Bulletin T5TR and free, testing sample of **NON-FLUID OIL**.

## NEW YORK & NEW JERSEY LUBRICANT CO.

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Southern District Manager:

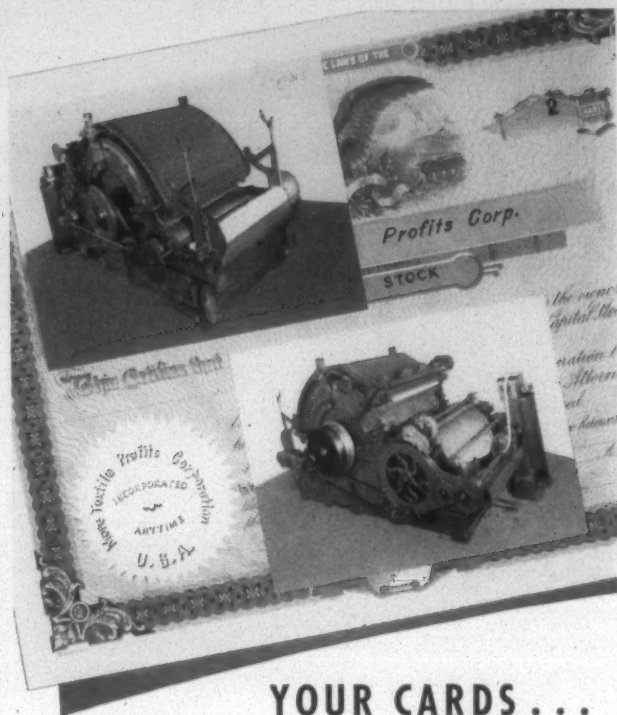
FALLIS L. THOMASON, Charlotte, N. C.

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Charlotte, N. C.—Greenville, S. C.—Atlanta, Ga.—Providence, R. I.—Detroit, Mich.—Chicago, Ill.—St. Louis, Mo.  
 Works: Newark, N. J.

See the **NON-FLUID OIL** exhibit in Booth 109 at the 15th Southern Textile Exposition.

**NON-FLUID OIL**



## YOUR CARDS . . .

### Are They Paying Good Dividends?

**Y**OUR cards are an investment. Like security investments they should pay good dividends but unlike securities you can't turn them over for a quick capital gain. Therefore the only way to make cards profitable is to keep them in good condition and operating as continuously as possible.

Good card clothing is an essential to good carding. To keep this clothing in a condition that will make your production profitable use Ashworth Card Surveys at regular intervals. They are made by practical card men who inspect all card clothing, chains and bearings and report to you in writing.

With this information on hand, you can make preventive repairs and replacements, scheduling them so as to involve a minimum loss of productive time and to spread out the cost.

Ashworth has a **COMPLETE** line of card clothing products to supply your needs. With 4 factories, 6 repair shops, and 7 distributing points we can give efficient service.

Write or call us at Fall River and arrange for a survey of your cards.

Visit us at Southern Textile Exposition, Booths 120 and 121.

## ASHWORTH BROS., INC.

AMERICAN CARD CLOTHING CO. (Woolen Div.)

FALL RIVER\*†‡ WORCESTER\*‡ PHILADELPHIA\*†‡ ATLANTA\*‡  
 GREENVILLE\*†‡ CHARLOTTE\*‡ DALLAS\*‡ (Textile Supply Co.)

\*Factory †Repair Shop ‡Distributing Point

**PRODUCTS AND SERVICES:** Card Clothing for Cotton, Wool, Worsted, Silk, Rayon and Asbestos Cards and for all types of Napping Machinery. Brusher Clothing and Card Clothing for Special Purposes. Lickerin Wire and Garnet Wire. Sole Distributors for Platt's Metallic Wire. Lickerins and Top Flats Re clothed.

*Ashworth* PIONEERS IN  
**CARD CLOTHING**

**4 FACTORIES . . . 6 REPAIR SHOPS . . . 7 DISTRIBUTING POINTS**

# One Million

## Marquette

**Roller Bearing Spindles  
with Full-Floating Footstep Bearing**

**NOW IN OPERATION**

*The*

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Write for illustrated catalog

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WINDSHIELD WIPERS FOR AIRCRAFT, TRUCKS AND BUSES  
FUEL OIL INJECTORS • PRECISION PARTS AND ASSEMBLIES

BYRD MILLER, WOODSIDE BLDG., GREENVILLE, S. C. • C. H. WHITE, 1229 PAMLICO DRIVE, GREENSBORO, N. C.  
WILLIAM P. RUSSELL, BOX 778, ATLANTA, GA. • JOHN J. HALLISSY, 58 LIVINGSTON AVE., LOWELL, MASS.  
IAN M. HALDANE & COMPANY, P. O. BOX 54, LONDON, ONT.

*white it can't be beat!*



**AND HERE'S THE REST OF THE  
OUTSIDE BARRELED SUNLIGHT LINE!**

**266 OUTSIDE WHITE** where the self-cleaning feature is not desired or you want a white that can be tinted.

**OUTSIDE BODY COLORS** for ready-made light tints.  
**OUTSIDE TRIM COLORS** for blinds, sash and other trim.

**OUTSIDE UNDERCOAT** for priming under above finishes.

**OUTSIDE GRANOLITH** for cement, brick and stucco.

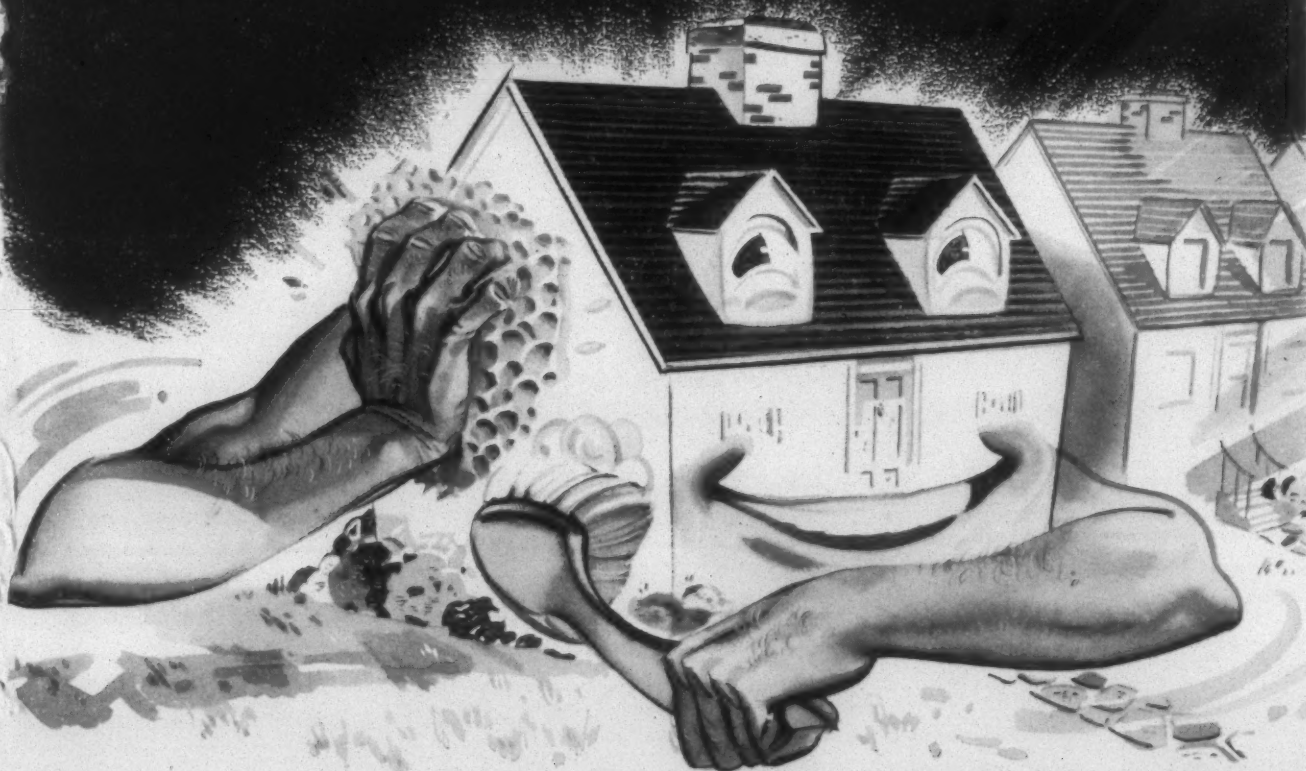
# BARRELED SUNLIGHT *Paints*

In whitest white or clean, clear, pleasing colors, there's a BARRELED SUNLIGHT Paint for every job

*It Protects while it Beautifies*

**BARRELED SUNLIGHT**

*Self Cleaning*  
**OUTSIDE WHITE**



Out of the market when top grade raw materials weren't available but NEVER out of buyers' minds, Outside Barreled Sunlight is back—better than ever! We've made its meld even better. It flows even easier. We've added to its hiding power which was already the talk of the trade!

Best of all we've made Barreled Sunlight Self Cleaning Outside White even whiter, extra brilliant. And furthermore, this higher quality paint grows whiter and brighter with the years. A "controlled chalking" process acts as a self cleaner by "liquidating" dirt and dust in the course of weathering. And when repainting eventually is needed, controlled chalking assures a clean, smooth, even surface that can be quickly and easily repainted without costly preparations.

If you've hesitated to repaint your mill village or other properties during the "scarcity" years...or have painted, to your regret, with sub-standard materials, NOW is your chance to obtain a top grade job\* again.

Barreled Sunlight Self Cleaning Outside White, a multiple pigment paint, will give you added years of protection and cut your maintenance costs. Call in a Barreled Sunlight man for helpful advice on painting exteriors (and interiors) of company homes, in white or color combinations at sensible, down-to-earth costs. Write U. S. GUTTA PERCHA PAINT COMPANY — 5-1 Dudley Street, Providence, Rhode Island.

\*Deteriorated surfaces must, of course, be properly prepared before repainting.

Visit us at Booth 222 at the Southern Textile Exposition, Greenville, S. C., October 4 - 9



**More Spindle Hours of Operation**  
*with*  
**CHARLOTTE LONG-DRAFT  
SPINNING APRONS**

Made of the most select Calfskin, by Charlotte Craftsmen whose many years of experience in the manufacture of Charlotte spinning aprons results in these very special advantages:—

- Uniform Thickness
- Stronger Lap
- Perfect Balance
- Accuracy to exact Specifications.

*Our convenient location in the very heart of the southern textile manufacturing area is an important factor in rendering "Service when you need it," day or night.*

**CHARLOTTE**  
**LEATHER BELTING COMPANY**  
CHARLOTTE, NORTH CAROLINA

# *The new Approach to SULFONATIONS and Sulfations*



Less than twelve months ago General Chemical Research introduced SULFAN—Stabilized Sulfuric Anhydride—to the Process Industries. Even in that short space of time, many using SULFAN have predicted it may well “rewrite the book on sulfonation and sulfation!”

Important among the many reasons for this belief is the fact that SULFAN provides Sulfur Trioxide in stable, easy-to-use liquid form for the first time in chemical history.

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- Eliminates costly, time-consuming neutralization and washing steps.
- Shortens processing time.
- Produces salt-free products.
- Obviates waste acid disposal.

Already finding a place in the textile, dyestuff, detergent, pharmaceutical, plastics and general organic chemical

industries, SULFAN may hold a rich potential for your operations, too. Write for samples or commercial quantities.

## Special Technical Literature

Available on request on business letterhead.

**SULFAN**—General Chemical Technical Bulletin SF-1 containing 16 pages of charts, graphs, other data on Sulfan.

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Research and Development Department

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# HIGH STABILITY

## For Continuous

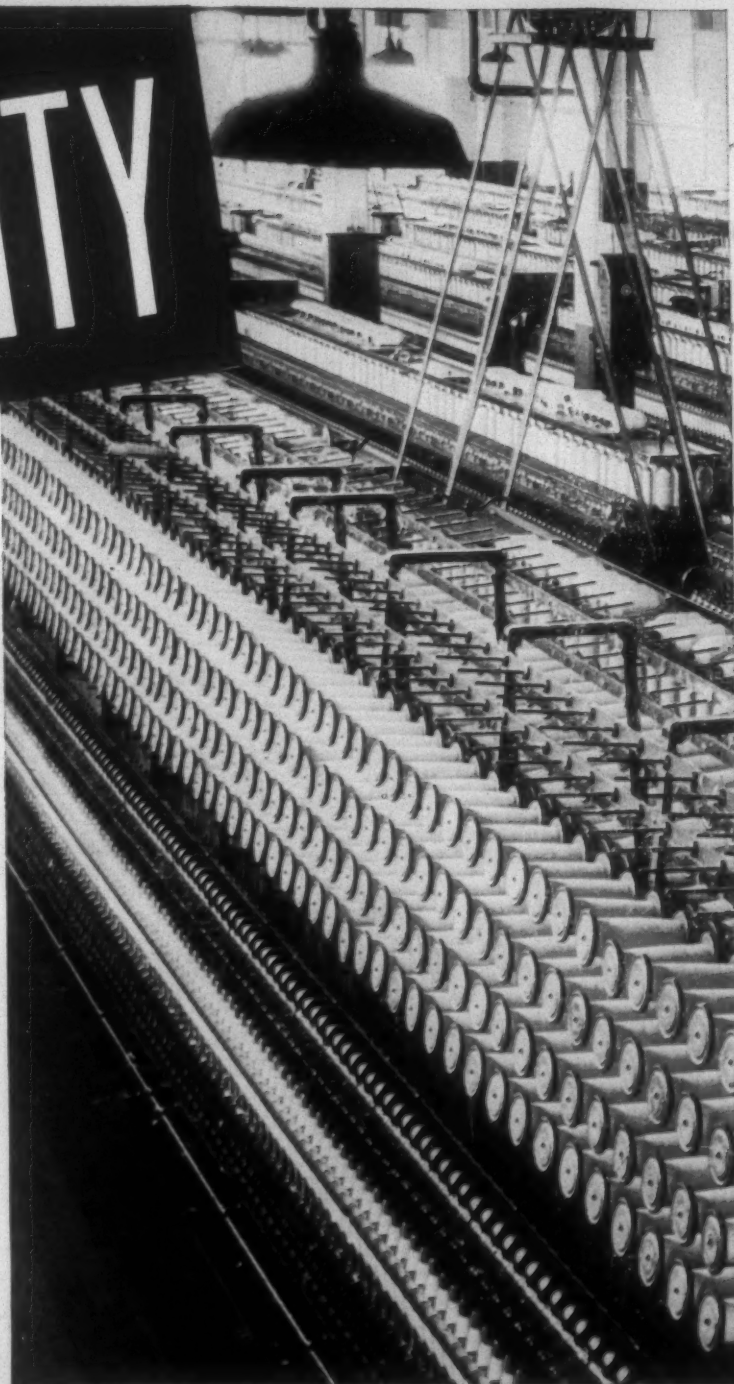
### NEW OIL REDUCES WEAR AND GIVES LONGER SERVICE LIFE

Sinclair now offers new, superior LILY WHITE OILS. Practical tests on spinning frames in production show that these new oils cut bolster wear as much as two-thirds, and greatly reduce residue in spindle bases.

By virtue of basic crude treatment and compounding, the new LILY WHITE OILS AX, BX and CX reduce friction and sustain stability in use—provide resistance to thickening, fogging and gummy deposits.

As the new LILY WHITE OILS reduce friction and wear, maintenance costs go down, power costs go down and production GOES UP. LILY WHITE OILS give the operator more of everything he wants in a spindle oil.

Be sure to visit our Booth #103 at the Southern Textile Exposition in Greenville, S. C., October 4 to 9. We'd like to tell you more about our new LILY WHITE OILS.



# SINCLAIR

YOUR NEAREST SINCLAIR AGENT WILL GLADLY ARRANGE

# LOW POWER Consumption



**LILY  
WHITE  
OIL**

## TEXTILE LUBRICANTS

FOR LUBRICATION COUNSEL, OR YOU MAY WRITE TO SINCLAIR REFINING COMPANY, 630 FIFTH AVENUE, NEW YORK 20, N. Y.

Threshold treatment with

Calgon\*

inhibits corrosion—  
prevents precipitation of dissolved iron

—and these are only two of many advantages of Calgon in  
textile processing. For full information, write for the bulletin  
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*\*T. M. Reg. U. S. Pat. Off.*

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# general dyestuff corporation

despite the effects of a war-time economy and the scarcity of construction materials, equipment and raw materials, the general dyestuff corporation delivered to the american consumer more than twice as many pounds of dyestuff in 1947 as before the war.

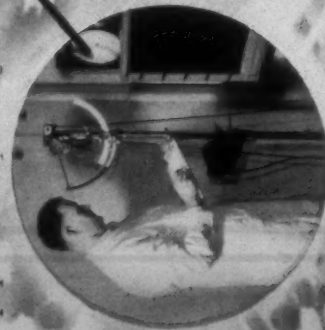
# better *RESEARCH* through complete facilities

Product Development Laboratory. Where new Textile Starches are developed and present products improved to meet the changing requirements of the Textile Industry.

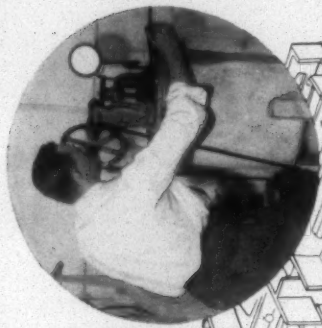
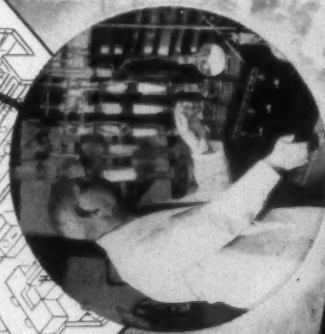
Research Library: An example of the complete facilities provided for our staff of expert chemists and technicians.



Textile Testing Laboratory: Gives warp yarns rigid tests to insure proper weavability and weight.



Textile Laboratory: At your service for analysis, comparison and recommendation for your sizing needs.



An over-all view of the Research Laboratories located on two floors in the Administration Building of the A. E. Staley Manufacturing Company at Decatur, Illinois. The Control Laboratories are located in a separate building on the plant grounds.

Nothing has been overlooked to make the Staley Laboratories complete in every detail that will enable us to develop and produce the very finest Textile Starches. The services of these modern, up-to-date laboratories—and our staff of chemists and technicians—are available to our customers.

Out of such research has come—and will continue to come—our complete line of Textile Starches which make it possible for you to select the proper Staley Starch for every sizing requirement... Textile Starches that assure consistent, high quality and dependable performance because they are under strict Control Laboratory supervision throughout the entire processing. Now is the time to get acquainted with our prompt service and complete cooperation. Write, wire or phone for more detailed information.



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A. E. STALEY MFG. COMPANY

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# COMPLETELY INTEGRATED OPERATION

*Selling for*  
**MILL ACCOUNT ONLY**

- FINISHED CLOTH
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WORLD MARKETS)

*A Great Textile Selling Organization*

## ISELIN-JEFFERSON COMPANY, INC.

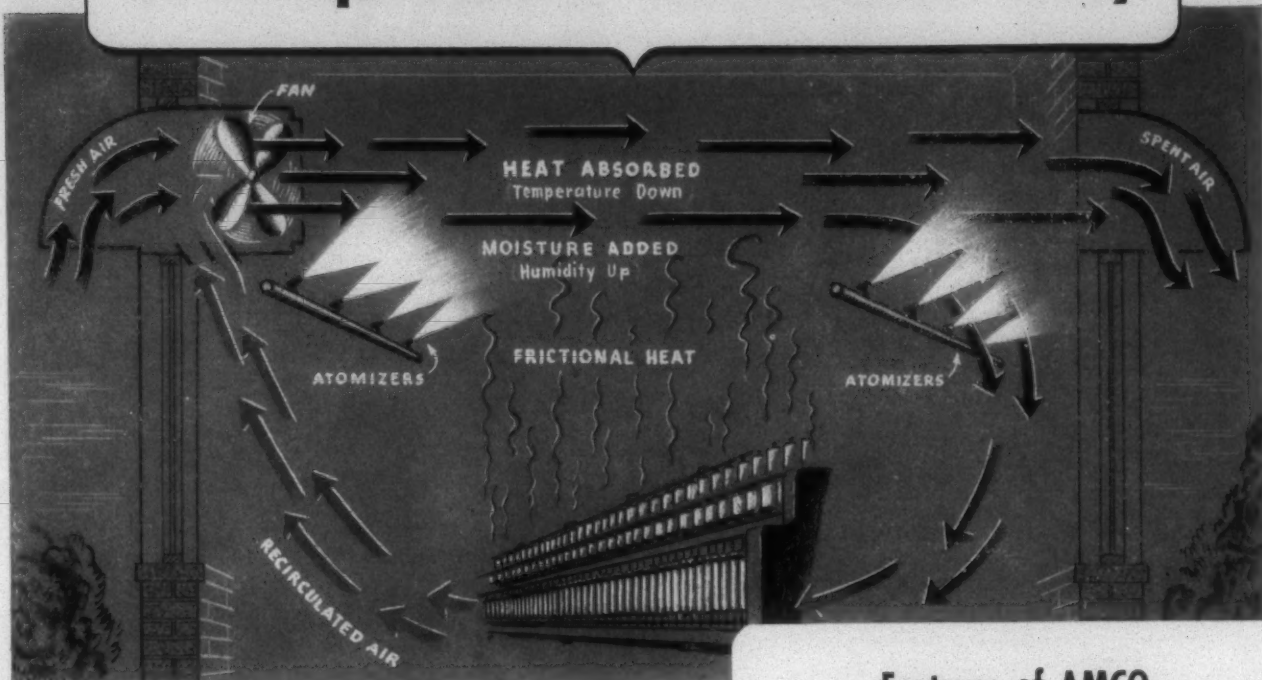
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# Nothing cools so simply as evaporation...the AMCO way



• With completely automatic AMCO Evaporative Cooling system a controlled amount of fresh air is drawn into the mill from outside and combined with some re-circulated air. Spray from atomizers introduces moisture and relative humidity is raised to the desired point. Frictional heat is absorbed by evaporation of moisture thus reducing excessive room temperature. Spent air is exhausted automatically through controlled vents.

Simple, flexible, economical—AMCO treats each room as a separate unit. No expensive changes are necessary... no air ducts to install... no jump in maintenance costs. What AMCO humidification and cooling has done for many well-known, progressive textile mills, it can do for you. Let an AMCO engineer show you the way to better product quality and increased output.

## AMCO

### HUMIDIFICATION and COOLING

AMERICAN MOISTENING CO. AFFILIATED WITH GRINNELL COMPANY, INC.

PROVIDENCE, R. I. • BOSTON • ATLANTA • CHARLOTTE

### Features of AMCO Humidification and Cooling

Reduces excessive temperature and holds relative humidity at point best suited to fibre and process.

Permits faster machine speeds in high friction (heat) areas.

Assures even yarn counts and increases breaking strength.

Gradually increases regain for good roving and consequent better spinning.

Drafting of fibres smoother and more compact.

Waste and fly greatly reduced.

Increases worker comfort.

Easier to install—minimum disruption.

Amco Evaporative Cooling utilizes your present humidification system.

High flexibility to meet changing room conditions.

No cumbersome ducts to require cleaning.

Minimum maintenance.

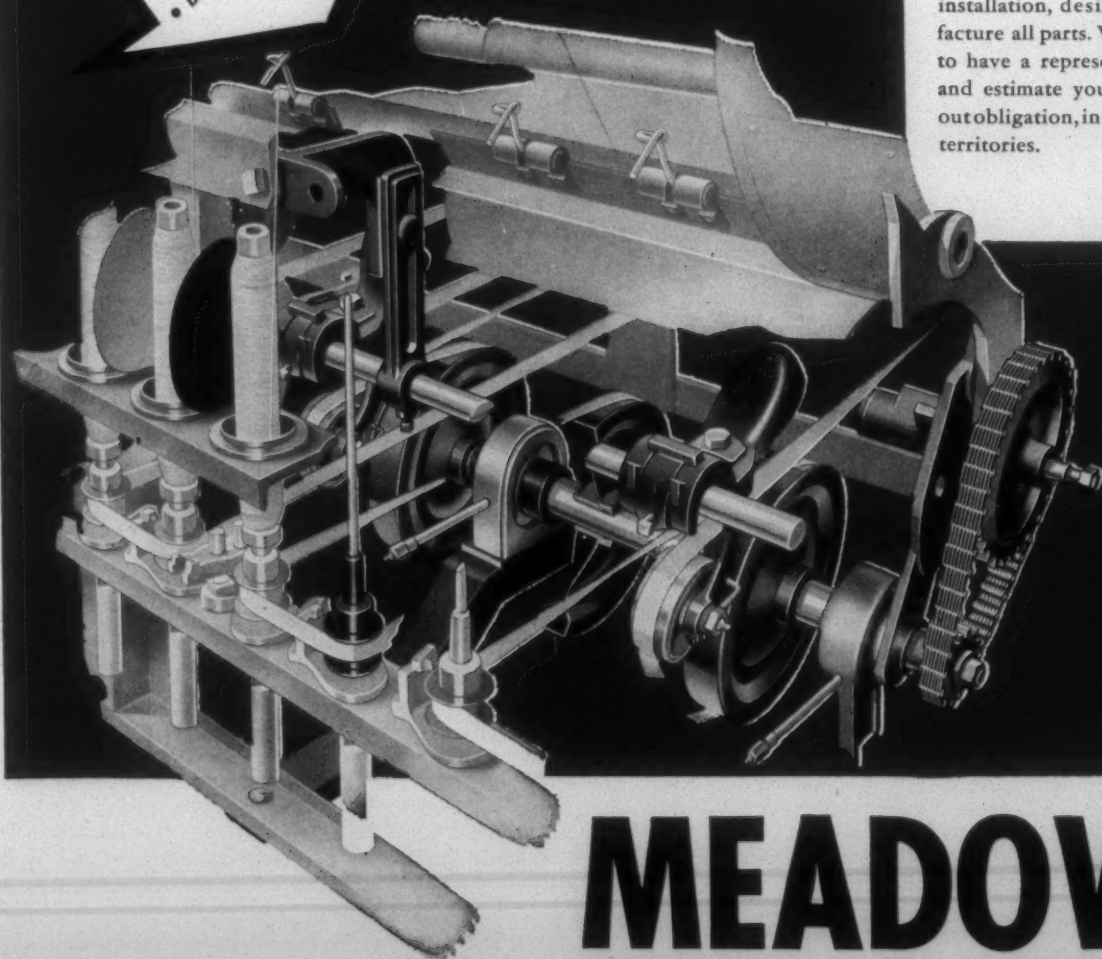


# Step Up Production of OLD FRAMES

MILLS have found that the *quickest*, most *economical* way to increase production on old-model band-driven or tape-driven frames is with Meadows Conversions... Consisting of Ball Bearing Tape Tension Pulleys, light weight solid aluminum Separators, silent Chain Drive, Individual Drive Pulley, and ground and polished Shafting mounted on heavy-duty ball bearings—these conversions assure *low* power consumption, no *tapes off* due to choked or sticky pulleys, less wear on yarn, increased *output* and *no more* cylinder trouble.

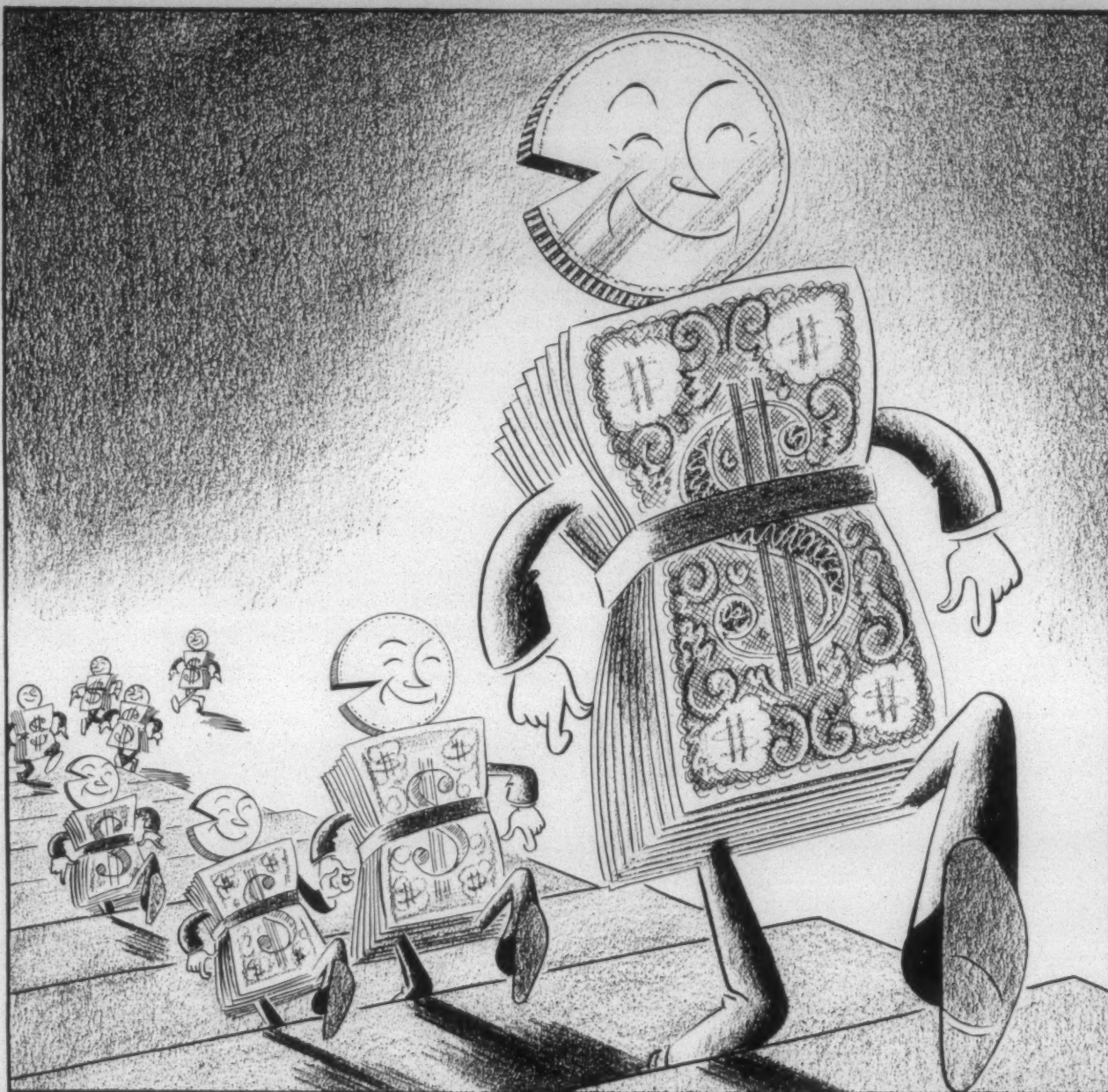
- Fewer Ends Down!
- No More Heads to Jerk Out!
- No More Cylinder Trouble
- Less Vibration!
- Uniform Speed and Twist!
- Better Package—More Yarn!

We engineer and service each installation, design and manufacture all parts. We will be glad to have a representative survey and estimate your frames without obligation, in their respective territories.



## MEADOWS

MANUFACTURING COMPANY • ATLANTA, GA.



## Small Steps are Easy

### When You Earmark a Tangible Cash Fund for Loom-Replacement

As new looms become available, mills can take the necessary steps toward meeting weaverroom modernization needs... if a systematic loom-replacement program has been worked out *without a blind spot*... and if that program has been implemented by an actual, *earmarked* cash fund.

That *blind spot* may be just this; Loom depreciation has *not* been figured accurately unless liberal allowance has been made not only for postwar depreciation... but also for the full duration and stepped-up rate of wartime depreciation. Then you

can figure what percentage of your prewar looms should be replaced annually... at least 10% of your least efficient looms, but probably more.

In fact, it's good business to figure considerably more than 10%, for the sooner you can comfortably complete your weaverroom modernization, the quicker and greater will be the return on your investment in the new Crompton & Knowles Looms which give you so much higher production, at lower cost, of better-quality fabrics. Is your loom-replacement fund set up... and operating?

### Crompton & Knowles Loom Works

WORCESTER 1, MASSACHUSETTS, U. S. A.

PHILADELPHIA, PA. • CHARLOTTE, N. C. • ALLENTOWN, PA.



CROMPTON & KNOWLES JACQUARD & SUPPLY CO., PAWTUCKET, R. I.

**We repeat:  
today's best  
dollar value in a  
warp size is**

**HOUGHTO-SIZE**

We make that unqualified statement because of our experience—dating back many years—with warp size compounds, and because of the outstanding performance of this newest member of the Houghto-Size family.

Here is a unit product, combining softener, binder and plasticizer. There's nothing to add except starch and water.

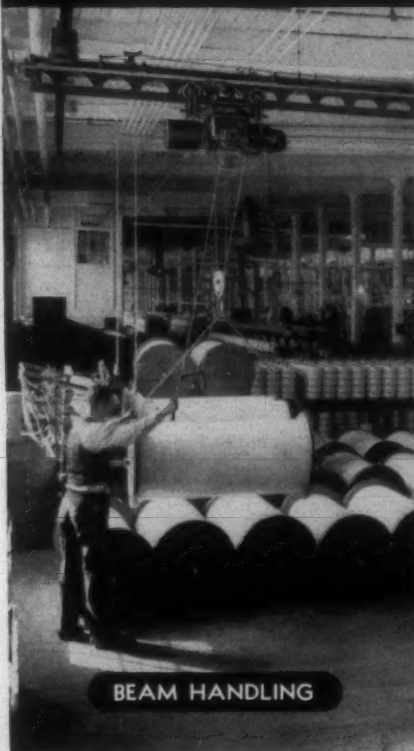
And it's the best dollar value on the market because of its low kettle cost, as compared to other size mixtures. Yet this low cost is not at the expense of quality, for you'll get a smooth-running warp of high breaking strength which

**CW**

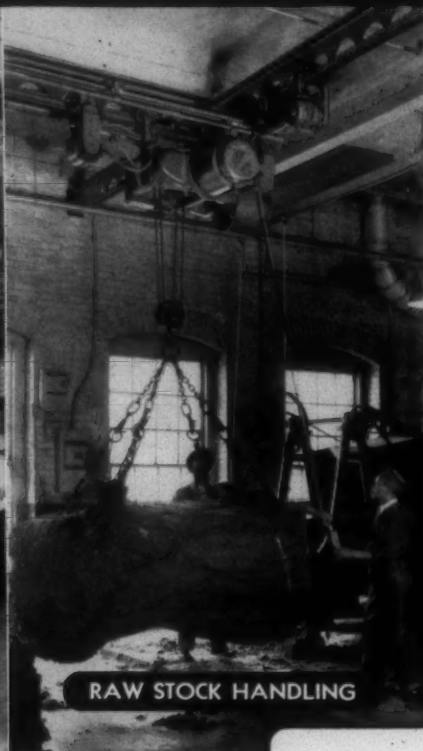
won't stick, and which will weave better, stepping up your weave-room efficiency.

So try HOUGHTO-SIZE CW and prepare to be surprised at both cost and quality of sizing. If you would like to conduct your own tests, write E. F. Houghton & Co., Phila. 33, Pa., or Charlotte 1, N. C.

# TEXTILE MILLS BOOST EFFICIENCY *with* CLEVELAND TRAMRAIL



BEAM HANDLING



RAW STOCK HANDLING



PACKAGE DYEING



CLOTH HANDLING — AUTOMATIC DISPATCH

Efficiency — meaning costs and output of product — has been greatly improved in many textile mills with installation of Cleveland Tramrail, even with other production facilities remaining the same.

During the period following the war it is predicted that the use of Cleveland Tramrail will be accelerated tremendously because textile mills will require more efficiency in operation than ever before if they wish to remain in a favorable competitive position.

No other machinery offers as great returns for the small investment required as overhead materials handling equipment.

- Upper Left: FIELDCREST MILLS, SPRAY, N. C.
- Upper Middle: CONE MILLS CORP., GREENSBORO, N. C.
- Upper Right: STEAD & MILLER CO., CONCORD, N. C.
- Lower Left: GREGG DYEING CO., GRANITEVILLE, S. C.

MATERIALS HANDLING  
TRAINED SPECIALISTS

CLEVELAND TRAMRAIL CAROLINAS CO.  
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A SHORT, SHORT TALE ABOUT "TAILS"



UNIFORM SIZE



PAT. APPLIED FOR



DESIGNED FOR ONE PURPOSE...

## TO ELIMINATE UNEVEN PACKAGES AND TAILS

(applicable to spinning yarn, also warp spinning)

The economy and efficiency of Numo Automatic Spinning Controls have been proved in America's largest textile mills. It offers these major advantages!

- Eliminates the necessity of doffers bearing rail down manually . . . makes doffing easier.
- Eliminates uneven packages from doff to doff.
- Eliminates chokes on spindles.
- Eliminates uneven tails left at butt of bobbins.
- Increases production by saving time at each doff.
- Reduces number of ends down on doff . . . Effects many other direct savings.
- Uniform packages and tails eliminate the necessity of unraveling long tails and "hunting" for ends. This means less bobbin transfer or break-out, as well as reduction in waste yarn. Once set for desired bobbin size and tail, there will automatically be a duplication on all succeeding doffs.

Write today for illustrated literature showing why more and more mills are turning to NUMO for increased production and lower cost.

## NUMO MACHINE & ENGINEERING CO., INC.

CHARLOTTE • NORTH CAROLINA

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Charlotte 1, N. C.

# *Are Your Ducks in these Rows?*

## **MORE PRODUCTION**

## **AT LESS COST**

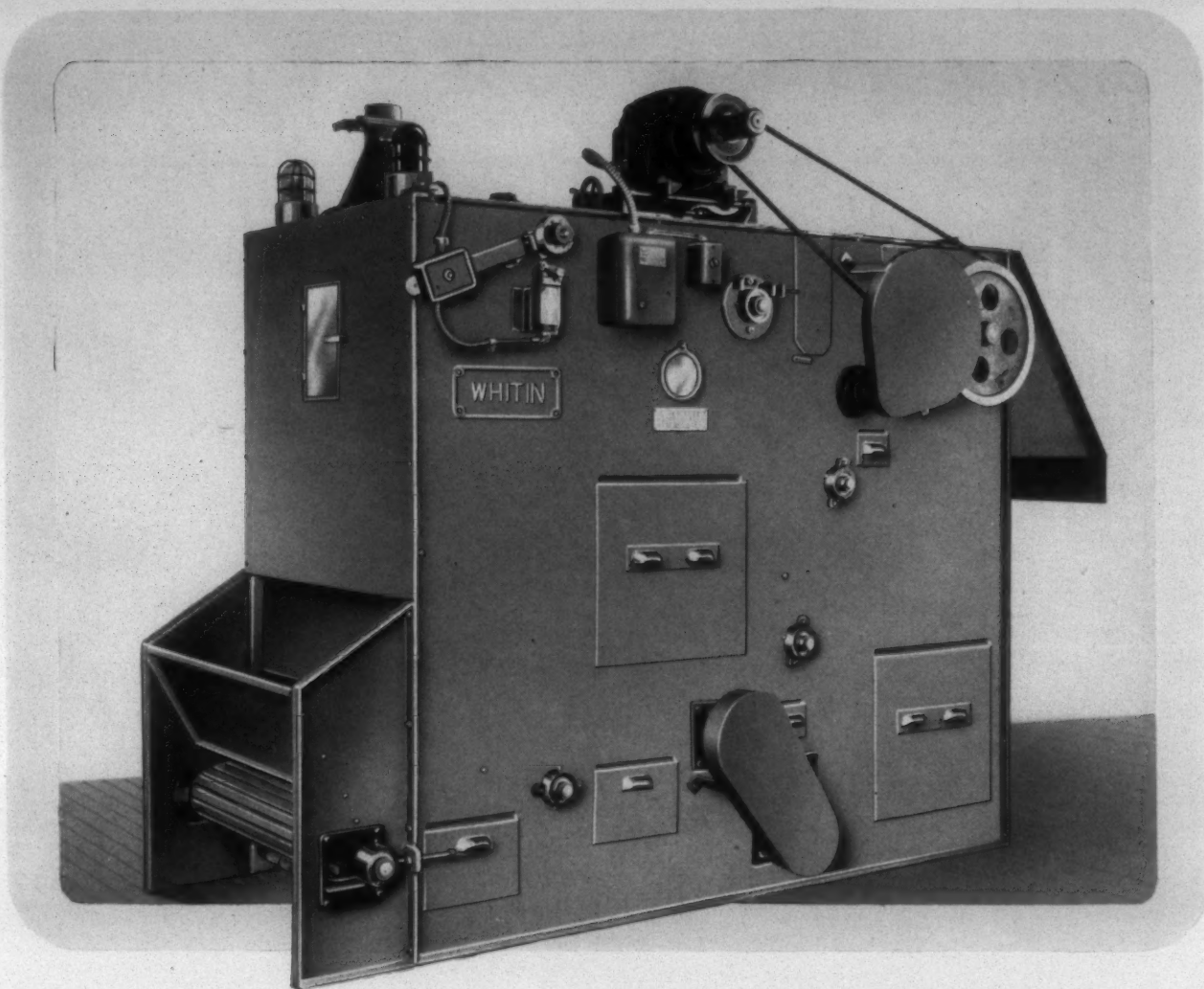
Here's how you can get lined up to meet present day requirements of volume textile production.

With the help of one of the South's oldest and most experienced sheet metal plants you can gear your preparatory machinery to modern competition. You can insure uninterrupted production right from the start with precision made sheet metal parts. You can rely on quality products made and delivered with prompt dependable service. You can realize substantial savings.

Simply write,  
wire or phone

**GASTONIA TEXTILE SHEET METAL WORKS, Inc.**  
**GASTONIA, NORTH CAROLINA**

*A SHEET METAL WORKS SERVING TEXTILE MILLS*



## WHITIN *takes another* STEP FORWARD

### Two New Blending Feeder Models Now in Production

In support of Whitin's announced policy of Progress Through Improvement we can now report the development and production of two new blending feeders—the Model "N2" for blending and feeding baled cotton and the Model "N3" for synthetic fibers, wool, cotton wastes and card strips.

One of the most noteworthy improvements is the permanently synchronized relative speeds of all moving members. Speeds are easily controlled by the vari-speed "V" belt drive. Changes of settings for different grades of stock are greatly simplified.

The proper relative speeds of the bottom apron, pin apron, pin cylinder or Sargent comb, and pin apron doffer, have all been properly selected after exhaustive

tests to give the maximum efficiency in blending, dusting, cleaning, and the size of the delivered tufts of stock.

To increase or decrease the size of the tufts of delivered stock the pin cylinder or Sargent comb may be set at the proper distance from the pin apron. If a change in production is desired without changing the size of the stock tufts, the whole machine speed is controlled by turning a handwheel on the base of the motor.

Other new features which add to the efficiency of these machines are the redesigned apron with closer spacing slats, and the inclined bottom apron. All shafts run in self-aligning ball bearings and signal lights, dust fan and sprinkler domes are standard equipment.

# Whitin MACHINE WORKS

WHITINSVILLE, MASSACHUSETTS  
CHARLOTTE, N. C. • ATLANTA, GA.

## Proper Carding Benefits the Whole Mill

with **TUFFER CARD CLOTHING**

*You Get Production Off to the Right Start*



The Tufferizing Process—developed and exclusively owned and used by Howard Bros.—cuts and forms wires with an accuracy never before obtained in the making of card clothing. The wires are formed with precision and placed accurately in the famous Tuffer Foundation . . . when drawn on the cylinder they fit snugly — *sides perfectly parallel and every point in place.*

**W**ITH precision-made Tuffer Card Clothing on your cards, you get production off to the right start—raw stock losses are reduced to a minimum and the fine, even web, so necessary for spinning and weaving, is obtained.

Wise management realizes that the money invested in maintaining its card clothing at top efficiency pays off profitably in high quality production and economical operation. The benefits derived from proper carding are felt throughout the entire mill.

Talk over your carding problems with a Howard Bros. representative. You'll find it will prove worth while.

**HOWARD BROS. MFG. CO.**  
WORCESTER 8, MASSACHUSETTS

Southern Plants: Atlanta, Ga. and Gastonia, N. C. Branches: Philadelphia, Pa. and Blanco, Texas  
Direct Representation in Canada

A-7

**TUFFER**  
CARD CLOTHING

**IMPROVES PRODUCTION ALL ALONG THE LINE**



## *Condor* Whipcord V-Belts are Pre-Stretched

Uneven stretch in a multiple V-Belt drive overloads some belts while others ride slack. Power is lost and V-Belt life is shortened. Manhattan engineers have designed Condor Whipcord V-Belts to insure the most uniform team performance possible.

During manufacture, the stout Whipcord Strength Member, endless wound to form the load-carrying core of the belt, is pre-stretched. This Whipcord Strength Member is placed in the neutral axis area of the V-Belt and surrounded by heat dissipating, slow

aging Flexlastics. Thus, the percentage of stretch is practically nil.

On your multiple V-Belt drives, every Condor Whipcord V-Belt wedges firmly in the sheave and delivers *all* the power you are paying for. Send for free engineering data applicable to your drives.

*Manhattan's line of rubber products for Industry is consistently dependable—outstanding in quality. Make MANHATTAN your choice.*

("Flexlastics" is exclusive with Manhattan)



# RAYBESTOS-MANHATTAN INC.

*Keep Ahead with Manhattan*

MANHATTAN RUBBER DIVISION

PASSAIC, NEW JERSEY

# reach for your telephone . . . .

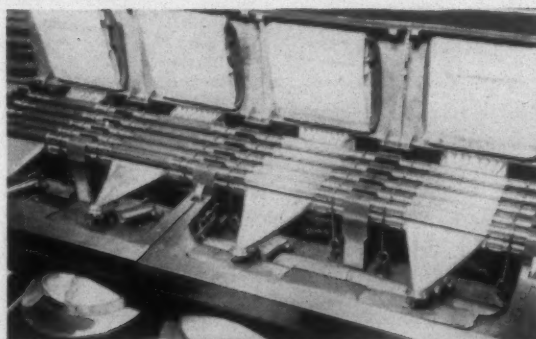


## and solve your production problems

—that's all you need to do if your mill is behind production schedule because of costly breakdowns.

From opening to finishing, Medley engineers in 3 modernly equipped plants can help you get peak performance from any piece of textile equipment needing repair or replacement parts **QUICK**. Medley planned it that way when they arranged to have a plant easily accessible to all the important textile manufacturing centers.

Whether you need us now or not, for future reference, learn about the Medley System and its complete textile engineering service. When you need quick, expert help . . .



Let Medley tell you about their famous "8 Ends Up" Drawing and how you can step up production by having your present frames changed over to this more efficient process.

South or Southeast . . . CALL

**Medley  
Manufacturing Company**  
Columbus, Ga. 2-1695

South or South Central . . . CALL

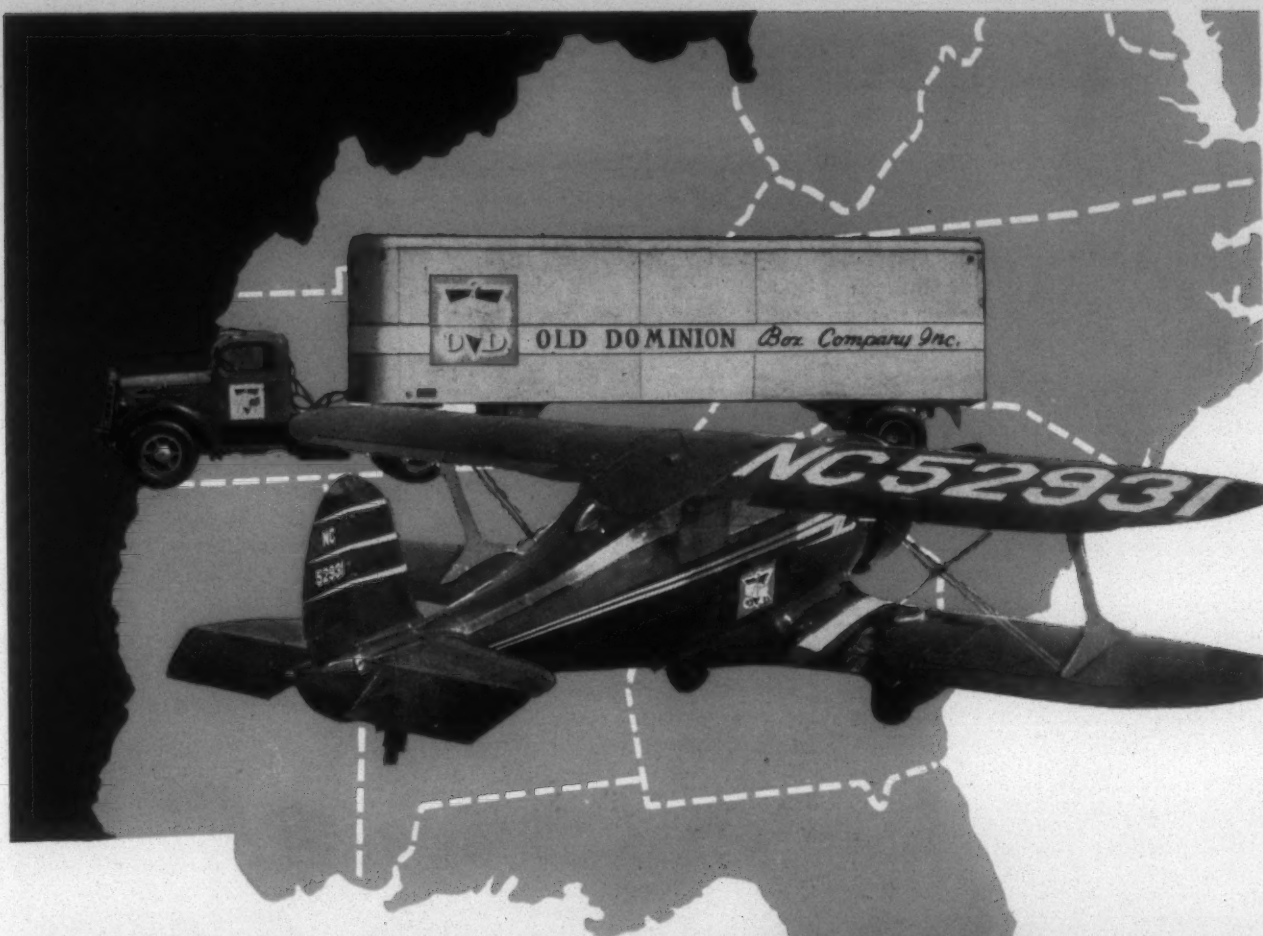
**Gastonia Roller, Flyer &  
Spindle Co.**  
Gastonia, N. C. 5-1531

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**Allan  
Textile Machine Co.**  
Pawtucket, R. I. PERRY 7075

**The MEDLEY System, Inc.**  
400 32nd ST., COLUMBUS, GEORGIA

*Medley Manufacturing Co., Columbus, Ga. • Gastonia Roller, Flyer & Spindle Co., Gastonia, N. C. • Allan Textile Machine Co., Pawtucket, R. I.*



## Strategic Location — *Faster Service*

Planes, trucks and trains all play their part in servicing the thousands of Old Dominion customers from the eight centralized plants in the South Atlantic area. This fast delivery of goods and services is augmented by the fast delivery of ideas — that potent weapon that changes packages to sales appeals.

Old Dominion's new, streamlined package design service is yours for the asking. Old Dominion designs and makes every type of paperboard and acetate container. Write today for free counsel on your packaging problems. Old Dominion will deliver faster . . . and cheaper, too.

For a booklet on Old Dominion's design and packaging service, write Department 102.



# OLD DOMINION

PLANTS LOCATED THROUGHOUT THE SOUTH

*Box Company Inc.*  
**CHARLOTTE, N. CAROLINA**

THE SOUTHERN BOX MAKER WITH A NATIONAL REPUTATION

## Communism

**T**HERE is a living danger at large in the United States today. It is a danger all the more imminent because the vast majority of Americans are either blissfully unaware of it, skeptical of its existence, or ignorant of its magnitude. That it does exist is apparent from the ill effects it has already exerted on our way of life.

Communism is admittedly the enemy of every other political and social ideology. Because our brand of democracy is the system of government most remote from Soviet totalitarianism, it should not surprise us to learn that our freedom-loving nation has become the foremost target for Communist-directed, subversive activities. The fact that we are also Russia's greatest rival, and the only one capable of forestalling Red aggression, merely serves to aggravate the situation and intensify these activities.

Communists, their agents and their fellow travelers are as difficult to spot as they are to classify, and for two good reasons. First, they will seldom, if ever, admit any interest in Russia or Communism; and secondly, a great many American citizens who seek to undermine our prized institutions and overthrow our way of life, sincerely believe that they are *not* Communistic, and vehemently disclaim any connection with the Communist party. But whatever they call themselves, their un-American tactics are as helpful to Communism as they are harmful to democracy.

One and all, they must be exposed in their true colors.

Each of us must take an active part in this national housecleaning, for it is a task necessary to the preservation of our hard won liberties. By learning how to recognize the subtle, underhanded *methods* of the enemies of freedom and human decency, we can soon become proficient at spotting those enemies themselves.

Their methods are characterized by certain tactics, all of which are calculated, either directly or indirectly, to create and spread doubt. Experience has taught them that the most fertile soil for the development of their plans

is an area where doubt is permitted to flourish, for doubt breeds distrust, and distrust creates disunity. Once disunity has gained a foothold, delays are sure to result: delays in producing and transporting vital goods, delays in passing urgent legislation, delays in building up our industrial and military potential to the strength necessary for adequate national security.

Those who spread false and insidious rumors, defy authority or strive to destroy confidence in our government—are, purposely or otherwise, abetting the cause of Communism.

Under the guise of patriotic pacifists, they may demand a national policy of isolationism, when such a policy would remove the last effective barrier to Soviet expansion. They may attempt to bog down production, at a time when increased output alone can defeat inflation and reduce the high cost of living.

They may employ a wide variety of disguises, but their immediate objectives are identical: confusion, delay, discord.

A Communist will masquerade as the most ardent American, while his efforts contribute to the weakening of America. — *P & S News*, Proctor & Schwartz, Inc., Philadelphia, Pa.

## Congratulations

**I**T is in order to congratulate the North Carolina Textile Foundation upon its achievement in passing its original goal of \$1,000,000. The success attained has encouraged it to set a new goal of \$2,000,000, and it will have that amount in hand in due time.

North Carolina State College has greatly benefited from this worthy endeavor, and increasing benefits will be observed as the years pass. But of course the textile students and the textile industry will be the principal beneficiaries.

And the same will be true of the other lately-created foundations designed to strengthen State College in its various departments, including engineering, dairying and general agriculture. These foundations will greatly strengthen the college and enable it

to serve these industries better than ever before while better serving the increasing numbers of students in these fields.

As is generally known, the purpose of these foundations is to supplement the appropriations made to State College by the Legislature and thus enable it to attract the most outstanding teachers in these specialized fields by offering them larger salaries than the institutions could pay otherwise.

State College is a greater and stronger institution even today than it would have been had not these foundations been created, although some of them have not yet reached their original financial goals. — *Charlotte* (N. C.) *Observer*.

## Big Men

**I**T takes a big man of superior quality to be capable of a generous encouraging attitude. But that's the way to win co-operation in a company.

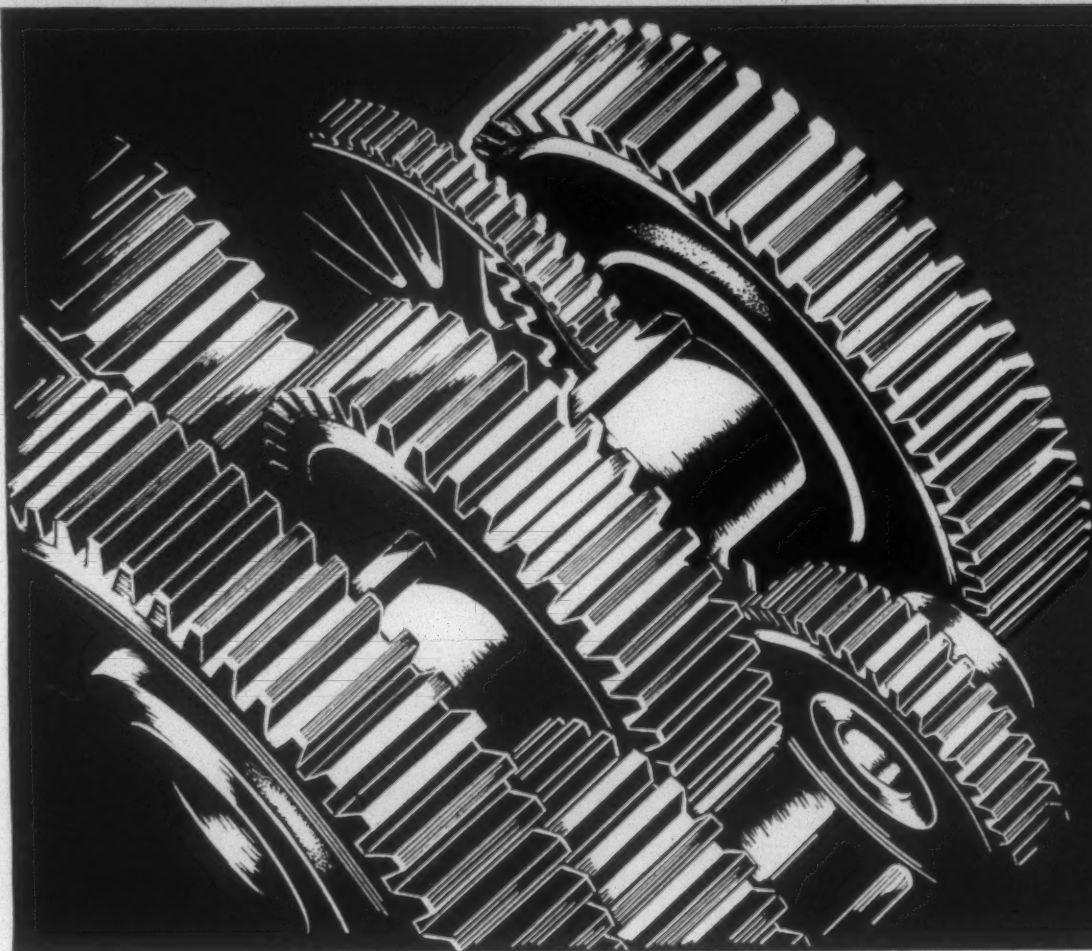
To do this you must have belief in yourself, and in the security of your job. The big man instills a similar assurance in his staff. Unfortunately, the general philosophy of American business does not tend to develop self-confidence.

Why is this the case? It is because our business is so fiercely competitive. As a part of a democratic society, it is comparatively free of social class distinctions and other traditional barriers.

But the American system of business, which makes American business the best in the world, means that almost everybody has his eyes on *your* job. The struggle to maintain your position is, therefore, a never ending source of concern. It keeps everybody on his toes.

But rewarding others with praise will reward you—in increased co-operation, production, and sincerity of fellow workers. The important factor in maintaining production with yourself and among your fellow workers lies in adopting a constructive, rather than a destructive attitude, toward your fellow employee — *The Slater News*, Slater (S. C.) Mfg. Co., Inc.

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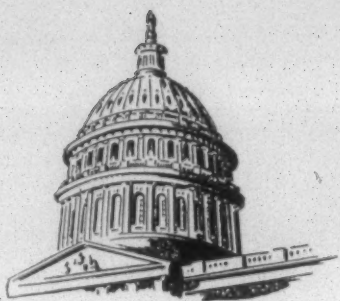
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# WATCHING WASHINGTON

[Exclusive and Timely News from the Nation's Capital]

Truman strategists are making superhuman efforts to swing Southern leaders back into line. So far McKellar (Tenn.) is the only one who has responded. Heat is on strong for Sparkman and Hill in Alabama. Most other Southern senators, including Byrd (Va.), Maybank (S. C.), George and Russell (Ga.), and Eastland (Miss.), are written off as dead losses.

While no Southern state is claimed now for Dewey, observers believe he will poll heavily in some of them. G. O. P. leaders say their chances are best in Va., N. C., Ga., and Tenn. They expect Thurmond to carry the deep South in a sweep.

Truman strategists hope prices will continue until after the election. They fear, too, that big crops, increasing production and consumer resistance may begin to show on price ranges before the ballots are counted.

Truman intends now to blame Congress for high prices in every speech he makes. There'll be no mention of his own "come and get it" wage increases, or vast federal subsidies poured into holding up farm prices, as factors.

Members of Congress, under the sting of Truman attacks, are actively charting sweeping administrative changes in new legislation. They assert the basis for most of Truman's charges arises in twisting and interpretation of laws by New Deal boards and bureaucrats.

Union leaders are getting ready to cook up a fourth round of wage increases next Spring if prices remain high. They anticipate that government military spending will give much of needed support to price structure.

Efforts to defeat House and Senate members for voting for the Taft-Hartley Law have broken down in dismal failure. Of 288 House members who voted for the law, 244 have been renominated, and 13 defeated. Labor leaders are able to claim only eight defeated through their opposition.

An early campaign development is the evaporation of union bosses' claims to great political strength, with which Congress has been bludgeoned for years. Evidence is mounting that claims of unions in controlling votes of their members is a myth.

The unions' big bosses are beginning to lose hope that Congress will modify the Taft-Hartley Law. Unable to defeat those in primaries who passed the law, they have less hope of electing

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those who will try to repeal it. They are turning to hope of gaining modifications from New deal judges in court contests.

At least two provisions will be carried by union leaders to the Supreme Court as soon as possible — the bans on the closed shop and political spending by unions. There's belief the Court as now constructed will outlaw both bans as unconstitutional.

Top government officials admit privately there are real war clouds on Europe's eastern horizon. They're not so certain as a few weeks ago that Russia doesn't want war. Growing internal troubles in Russia may make war attractive as a way out.

Real solution of disputed points with Russia seems pushed farther away. Serious unrest among satellite populations is growing, and there are new danger spots. Tightening restraints may lead to outbursts or armed uprisings.

F. B. I. has an index of about 150,000 Communists and fellow travelers who would be rounded up for the clink in the event of trouble with Russia. Many are union officials or in strategic industries. Some are on farms near vital industries. Others are in colleges and on newspapers.

Communist domination of some C. I. O. unions is about to

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come under full investigation and exposure by the House Labor Committee. Open sessions will follow months of investigation by committee agents, and expected to reveal that top policy for some big unions has been set by secret Communist agents working under orders from Moscow.

Incoming Congress can be expected to outlaw the Communist Party, and enact strict bans on Communist in public and union jobs. Provision is likely that will give Congress access to loyalty records and F. B. I. evidence where Communists are involved.

An early exposure will tell how atom bomb data has filtered through to Russia; enough probably for Russia to make a bomb of sorts. One result may be the firing of three or more of the five Atomic Energy Commission members. Armed services are furious over the flop of the commission, its failure to co-operate, and the leaks in important data.

Truman campaign leaders are frankly concerned over the spread of insurgence in the South. So-called "Dixiecrats" are showing unexpected strength and stamina. Worst aspect is that Northern Democrats are writing Truman off as a loss, and concentrating on saving state and local tickets and Congressional candidates.

There really isn't going to be much union money to spend this year; workers are not kicking in either. Collection of single dollars is tedious, and lots of workers say they are for Dewey; lots of others say they are for Wallace.

The President is banking heaviest on expectation of all-out labor support. He put Maurice Tobin in as Secretary of Labor in the belief he's a strong union vote getter. Trouble is that rank-and-file unionists are not showing enthusiasm for Truman.

Indications point to Congress taking up welfare funds and other worker benefits in the next session. Unions are anxious for the matter to come up. Industries with their own profit-sharing and welfare funds are proving to be a stone wall of resistance to unions in organizing their workers.

More money will go into clothing and personal needs as mild but tightening restraints are imposed on time credits. The government is moving to increase short-term interest rates and require larger reserves under bank deposits. Tightening will be gradual and stronger.

Railroads are about to ask for another freight rate boost; it will be seven per cent this time. Post-war increases already granted amount to a rise of 44 per cent. Shippers say another increase will not help the rail carriers, but probably step up the growing volume of truck movement on highways.

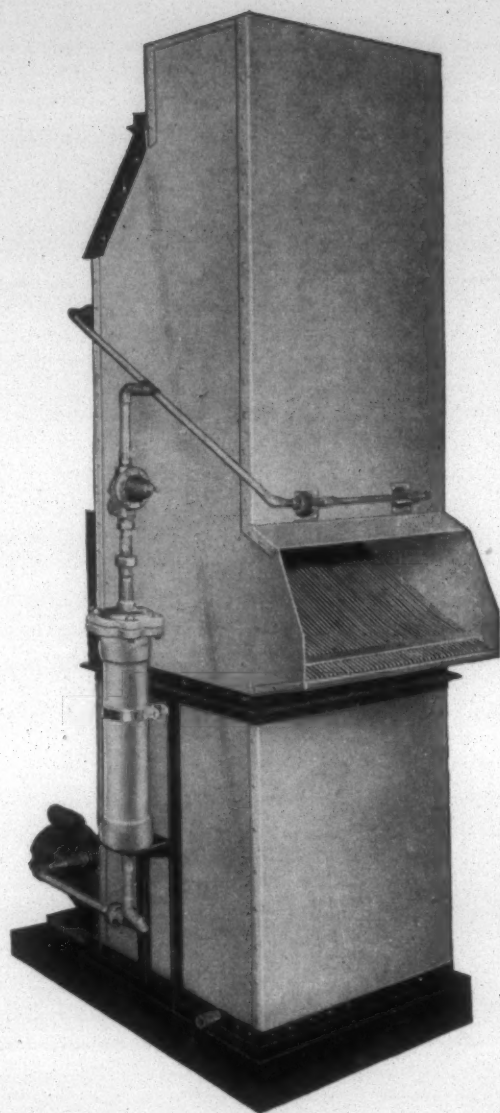
Top armed service officials are warning industrialists to be ready for any sudden eventuality. They're urging plants be kept in top repair, tool chests filled, and plans ready for sudden shifts in production. They are told to anticipate their equipment needs for four years.

# SEE IT AT THE SHOW

SOUTHERN TEXTILE EXPOSITION

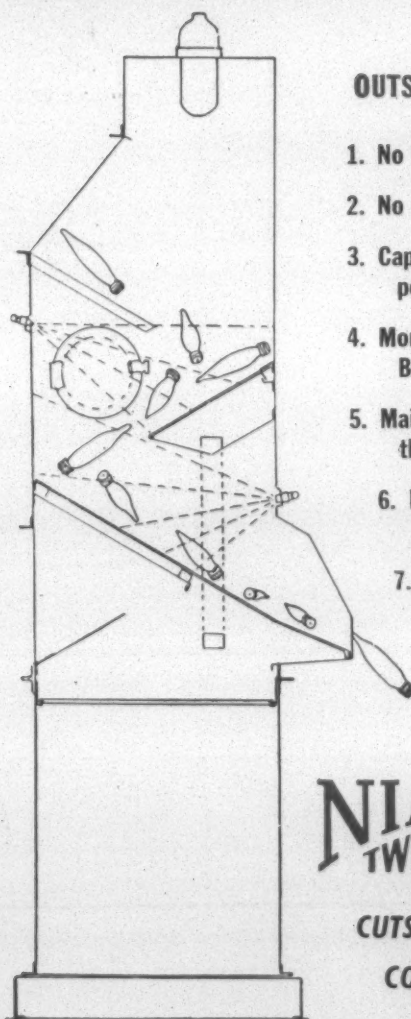
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# textile bulletin

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## Egg Throwers

When Al Smith, as a candidate for President, was speaking at St. Paul, Minn., the lights were turned off and stink bombs were thrown in the hall.

When Al Smith's train was passing through Montana fiery crosses were lighted. The same thing happened when his train passed through West Virginia.

When Wendell Wilkie was touring Massachusetts in 1940, a tomato, a potato, a stone and a light bulb were thrown at him.

In Chicago, Ill., eggs were thrown at Wilkie. One hit him and another hit his wife.

In Missouri in 1944 an apple core intended for Tom Dewey hit a photographer.

There were few if any editorials or open forum articles written about any of these incidents *because none of them happened in the South.*

In 1948, Henry Wallace, in order to show his contempt for the traditions of the South, spent the night in the home of a Negro at Durham, N. C.

The next day one egg and two tomatoes were thrown at him in Charlotte, N. C.

The Charlotte incident, *because it happened in the South*, has been the subject of countless editorials, and open forum articles attacking North Carolina are still appearing.

It was impossible for police and detectives to watch every person in the crowd when Henry Wallace spoke at Charlotte but all three of the persons who did the throwing were arrested and fined.

It is not on record that any of the persons who threw things at Al Smith, Wendell Wilkie or Tom Dewey were either arrested or punished.

Gangsters can ride down a street in New York or Chicago and eliminate competition for racket profits by pouring

machine gun bullets into rival gangsters without creating much comment.

But when a Negro who had hired a taxicab brutally cut to death the driver rather than pay the fare, as was done near Easley, S. C., in 1945, it became a crime of national concern when other taxicab drivers shot the Negro to death.

Apparently nobody cares about the taxicab driver being brutally cut to death but the shooting of the Negro who cut him became a matter of national concern.

We do not in any sense condone the shooting of the Negro at Easley, S. C., but fail to see why it was any greater crime than machine gunning rival gangsters because they were horning in on the profits of a racket.

There have been far more gangster murders in the North than Negro lynchings in the South.

An egg thrown at a Presidential candidate touring the South is apparently a much greater crime than an egg or stone thrown at a Presidential candidate speaking in Illinois or Massachusetts.

## New York F. E. P. C.

The F. E. P. C. law which Tom Dewey placed upon New York State and which he will seek to have Congress enact as a national law is far more than an anti-segregation law.

It is true that it will force cotton mills, banks and all employers of labor to employ Negroes and have them work side by side with whites, but more than that it takes away from all employers the right to select their employees or even to determine whether or not applicants are desirable or objectionable as employees.

The Tom Dewey law makes it illegal and punishable by a heavy fine for an employer to—

Inquire into the birthplace of the applicant for employment, the birthplace of his parents, spouse, or other close relative.

Inquire into the original name of the applicant for employment, whose name has been changed by court proceedings or otherwise.

Inquire into the maiden name of the wife of a male applicant for employment and/or inquiry into the maiden name of the mother of a male or female applicant for employment.

Inquire into the general military experience of an applicant for employment.

Inquire into the whereabouts of an applicant for employment during the First World War, i. e., during the period from 1914 to 1919.

Inquire into the complexion of an applicant for employment.

Require that an applicant for employment annex a photograph.

Require that the applicant for employment produce a birth certificate or baptismal certificate.

Inquire into the religious denomination of an applicant for employment, his religious affiliations, his church, parish pastor, or religious holidays observed. Inquire into whether an applicant for employment is an atheist.

Inquire into the organizations of which an applicant for employment is a member, including organizations, the name of which indicates the religion, race, or national origin of its members. To inquire whether or not the applicant is a Communist.

Require that an applicant for employment produce his naturalization papers or first papers.

Inquire into the lineage of an applicant for employment, his ancestry, or national origin.

Inquire into the location of places of business of relatives of an applicant for employment.

Inquire whether an applicant for employment is a naturalized or native-born citizen; the date when the applicant acquired citizenship; whether the applicant's parents or spouse are naturalized or native-born citizens of the United States; the date when such parents or spouse acquired citizenship.

If the employer, under the illusion that there is still freedom in America, denies employment to an applicant, he can be hauled into court and the burden of proof will be upon

the employer to show that he did not deny employment because the applicant was a Negro, a Communist or an atheist.

Under the New York F. E. P. C. law which was enacted under pressure from Governor Dewey, no employer of labor is safe from prosecution unless he disregards entirely the qualifications of applicants for employment or the fact that they might not be desirable employees.

The only safe way is to accept the applicants as they come and even then they may be hauled into court if they do not employ the same per cent of Negroes as the Negro population bears to the total population of the state.

When the Federal F. E. P. C. is enacted all employers in Mississippi, which has 60 per cent Negro population, will be forced to have 60 per cent Negroes among their employees.

Governor Warren attempted to place an F. E. P. C. law on California but it was defeated by a three to one vote with every county giving a majority against it.

F. E. P. C. laws have been submitted to the people of 21 states but defeated in 18 of them.

Harry Truman and Henry Wallace have as their prime objective enacting a Federal F. E. P. C. which will force Southern states to submit to social equality with Negroes.

Tom Dewey has already forced such a law upon the people of New York state and there can be no doubt about his attitude.

## George Gagnon's Sadness



In the above picture George Gagnon of Manville, K. I., who worked in the Manville Mills for 60 years, stands on the bridge over the Blackstone River and views with sadness the great plant which is to be dismantled.

Why are the mills to be dismantled?

There is but one true answer and that is *labor union racketeers*.

We do not say labor unions because the only blame attached to the labor union members has been that they permitted themselves to be duped by the labor union racketeers who lived upon the dues collected from union members but must now move to other fields.

No business can be successfully operated while subject to strikes and loss of operating hours, whenever the union leaders could find a pretext to make new demands upon the management.

The great Manville Mills, like other great mills at Fall River and other New England towns, decided that life was not worth living under union domination.

In 1923 New England had 21,000,000 cotton mill spindles but one by one mills have liquidated rather than continue under union racketeer domination and today there are only 4,700,000 cotton mill spindles in all of New England.

## British Seek Colonial Cotton

Lord Linlithgow, president of the British Empire Cotton Growing Corp., says British should step up colonial cotton production to end dependence on United States supplies.

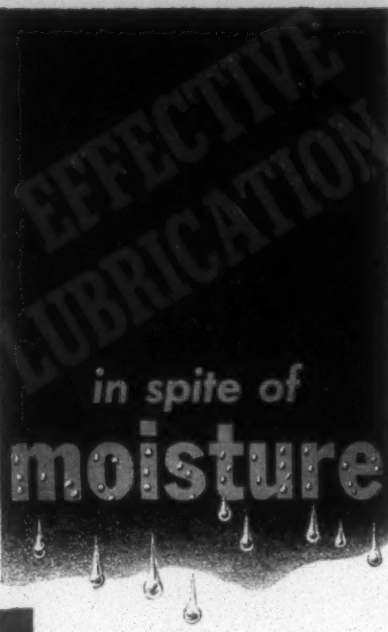
For at least a generation England has been spending large sums promoting the growth of cotton in her colonies and yet the total empire cotton crop in 1945-46 was only 612,755 bales.

Labor conditions in the British colonies are not favorable to cotton growing and English cotton manufacturers can buy all the land they desire in Mississippi, Arkansas, Oklahoma and Texas and raise cotton at a much lower cost and with more certainty than in her colonies.

Millions have been spent by England in attempts to grow cotton in colonies, and small amounts have been grown, but those who have profited most have drawn salaries from the British Empire Cotton Growing Corp.

## TEXTILE INDUSTRY SCHEDULE

- Sept. 25—SOUTHEASTERN SECTION, AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS, Ralston Hotel, Columbus, Ga.
- Sept. 27—Oct. 1—Third NATIONAL PLASTICS EXPOSITION, Grand Central Palace, New York, N. Y.
- Sept. 29—Annual meeting, SOUTHERN COMBED YARN SPINNERS ASSOCIATION, Charlotte (N. C.) Hotel.
- Oct. 4-9—15th SOUTHERN TEXTILE EXPOSITION, Textile Hall, Greenville, S. C.
- Oct. 12-16—Fifth NATIONAL CHEMICAL EXPOSITION (also includes National Industrial Chemical Conference), Chicago (Ill.) Coliseum.
- Oct. 14-15—Annual meeting, NORTH CAROLINA COTTON MANUFACTURERS ASSOCIATION, Carolina Hotel, Pinehurst, N. C.
- Oct. 16—TEXTILE OPERATING EXECUTIVES OF GEORGIA, Chemistry Building, Georgia School of Technology, Atlanta.
- Oct. 16-17—Annual meeting, NARROW FABRICS DIVISION, COTTON-TEXTILE INSTITUTE, INC., Carolina Hotel, Pinehurst, N. C.
- Oct. 18-22—NATIONAL SAFETY CONGRESS AND EXPOSITION (National Safety Council), Stevens, Congress and Morrison Hotels, Chicago, Ill.
- Oct. 21-23—Annual convention, AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS, Sheraton-Bon Air Hotel, Augusta, Ga.
- Oct. 21-23—COMMITTEE D-13 ON TEXTILE MATERIALS, AMERICAN SOCIETY FOR TESTING MATERIALS, Washington, D. C.
- Oct. 30—EASTERN CAROLINA DIVISION, SOUTHERN TEXTILE ASSOCIATION, Erwin Mills Auditorium, Durham, N. C.
- Nov. 6—SOUTH CAROLINA DIVISION, SOUTHERN TEXTILE ASSOCIATION, School of Textiles, Clemson (S. C.) College.
- Nov. 10—Annual meeting, THE THREAD INSTITUTE, INC., New York, N. Y.
- Nov. 11—Annual meeting, COTTON-TEXTILE INSTITUTE, INC., Plaza Hotel, New York City.
- Nov. 17—Annual meeting, CARDED YARN ASSOCIATION, Charlotte (N. C.) Hotel.
- Nov. 18-20—Annual meeting, TEXTILE RESEARCH INSTITUTE, Waldorf-Astoria Hotel, New York, N. Y.
- Nov. 29-Dec. 4—18th NATIONAL EXPOSITION OF POWER & MECHANICAL ENGINEERING, Grand Central Palace, New York, N. Y.
- Dec. 4—SOUTHEASTERN SECTION, AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS, Atlanta, Ga.
- Jan. 24-28, 1949—Ninth INTERNATIONAL HEATING & VENTILATING EXPOSITION, International Amphitheater, Chicago, Ill.
- March 7-9, 1949—Annual meeting, NATIONAL COTTON COUNCIL, Los Angeles, Cal.
- March 31-April 2, 1949—Annual convention, AMERICAN COTTON MANUFACTURERS ASSOCIATION, Palm Beach-Biltmore Hotel, Palm Beach, Fla.
- May 2-7, 1949—INTERNATIONAL TEXTILE INDUSTRIES EXPOSITION, New York, N. Y.
- June 16-18, 1949—Annual convention, SOUTHERN TEXTILE ASSOCIATION, Mayview Manor, Blowing Rock, N. C.
- June 27-July 1, 1949—Annual meeting, AMERICAN SOCIETY FOR TESTING MATERIALS, Atlantic City, N. J. (A. S. T. M. Committee Week and Spring meeting, Feb. 27-March 4, 1949, Chicago, Ill.)



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# the bulletin board

Questions, answers, comments and other material submitted by the readers for use in this column should be addressed to Editors, TEXTILE BULLETIN, P. O. Box 1225, Charlotte 1, N. C. All material will be edited properly before publication.

## FOREIGN EXCHANGE

Sirs:

We have told you the folling some times already — but we want to say you here again that we never order a supscription of your—possible first class—paper, and we therefore want not to have it monthly and not to pay for it too.

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¶ We edditors want not to never displeaced you, monthly or free too.—Eds.

Sirs:

The interesting articles that have appeared in the April and June issues of the BULLETIN regarding the races (civil rights discussions, also) in our country as well as abroad are so timely that I am taking the time to write you and express my appreciation for them, as well as to compliment you and your staff for the fine work you have done. I rightfully say "our country" for I am an American citizen working abroad on a foreign assignment. Yet if schedules aren't too badly delayed I hope to be able to attend the Southern Textile Exposition in Greenville one or two days, as I expect to take off from here within the next month.

For 35 years I have been a reader of the BULLETIN—it being one of the first periodicals I had access to when I began to read, as my father was an overseer in those days. The "new look" of the BULLETIN—the new style of make-up, and the establishing of departments are very helpful to the reader, and really make the publication even the more valuable and interesting. May the good work continue. When I am at your booth I want to pay you the difference due you on the cost of the subscription that you have so freely sent me while here in darkest Africa. By the use of the textile journals I have been able to keep somewhere near the front on developments and changes, so I won't be too far behind on my return to the "best country on earth."

Frank L. Byrd  
Filatures & Eissages Africains  
Filtisaf, S. C. R. L.  
Albertville, Congo Belge

P. S.—The June S. T. A. [Southern Textile Association] number is wonderful, and I'd like to have been among the happy crowd.

F. B.

¶ Mr. Byrd has many acquaintances in the Southern textile industry; his last position

before leaving for Africa was with Dan River Mills, Inc., Danville, Va.—Eds.

Sirs:

We have the honour to notice you that we have put your name in the mailing list of our publication, *Monthly Report of Japanese Cotton Spinning Industry*, from the issue of August, 1948, free of any charge, which we hope you will find informative concerning the Japanese cotton spinning industry. We, Japanese spinners, desire to know the new information of the foreign concerned industries as we have been shut out of the world's industrial development since the War II had begun, and we should be very fortunate if you will help our business by sending some informations on cotton industry in your country and others in exchange for ours.

T. Murayama  
Chief of Research Division  
All Japan Cotton  
Spinners Association  
Sampin Building, 15, 3-chome  
Kita Kyutaro Machi  
Higashi-ku, Osaka, Japan

¶ Report not received as yet. Dishonourable if we look it over before sending our informations?—Eds.

## GASTON COUNTY SPINDLES

Sirs:

Do you have any information available in your office which shows the approximate number of spindles operating in Gaston County [North Carolina]? If you have and can furnish me this figure I will greatly appreciate it.

Charles F. Myers, Jr.  
Assistant Vice-President  
Burlington Mills Corp.  
Greensboro, N. C. \*

¶ There are 1,127,140 spindles in Gaston County, according to the current edition of *Clark's Directory of Southern Textile Mills*. This is about one-sixth of all the spindles in North Carolina.—Eds.

## TEXTILE FOUNDATION

I want to take this opportunity to congratulate you [David Clark] and your associates in passing the million-dollar mark in the North Carolina Textile Foundation fund. This is a real achievement of which you can certainly be proud and I am happy to see that you have set a new goal of two million dollars and expect to keep working on this fund. This is a real contribution to the textile industry and a powerful incentive

to the other textile schools to continue to improve their program, buildings and equipment. It is bound to have a tremendous influence for good upon our textile industry.

I have been interested in checking with foreign visitors from time to time as to their textile schools, their type of thinking and of training men, and I am convinced that we are considerably further advanced in that respect than any other country today. I see you so infrequently that I wanted to take this opportunity when I read your editorial in the August issue of the *BULLETIN* to express my personal appreciation for the fine job you are doing.

M. Earl Heard  
Vice-President  
Research Division  
West Point Mfg. Co.  
West Point, Ga.

¶ What's good for the textile school is in turn good for the textile industry.—Eds.

#### PARACHUTE CLOTH

Sirs:

In my correspondence with the Industrial Engineering Department of the State of North Carolina for information regarding nylon fabrics for parachutes it was suggested that I write you for the name of mills that produce this fabric. It is of keen interest to me, as I am desirous of using this fabric here in North Carolina. Your information will be deeply appreciated.

John Gottlieb  
Y. M. C. A.  
Greensboro, N. C.

¶ Facts pertaining to nylon fabric for parachutes may be secured from Mr. P. D. Atwood, Sales Promotion Section, Nylon Division, E. I. du Pont de Nemours & Co., Inc., Wilmington 98, Del. Also, you might be able to get some information from two organizations right in Greensboro. They are Carter Fabrics Corp. and Burlington Mills Corp., whose respective addresses are 618 Jefferson Standard Building and North Eugene and Bellemade Streets. It is our understanding that these two organizations are still producing nylon fabric.—Eds.

#### THE INDUSTRY'S ECONOMICS

Sirs:

We would like to purchase a copy of *Economics of the Cotton Textile Industry*, published by the Conference Board. Do you know where we can buy a copy?

H. J. Blackford  
A. M. Law & Co.  
Stocks, Bonds, Insurance  
Spartanburg, S. C.

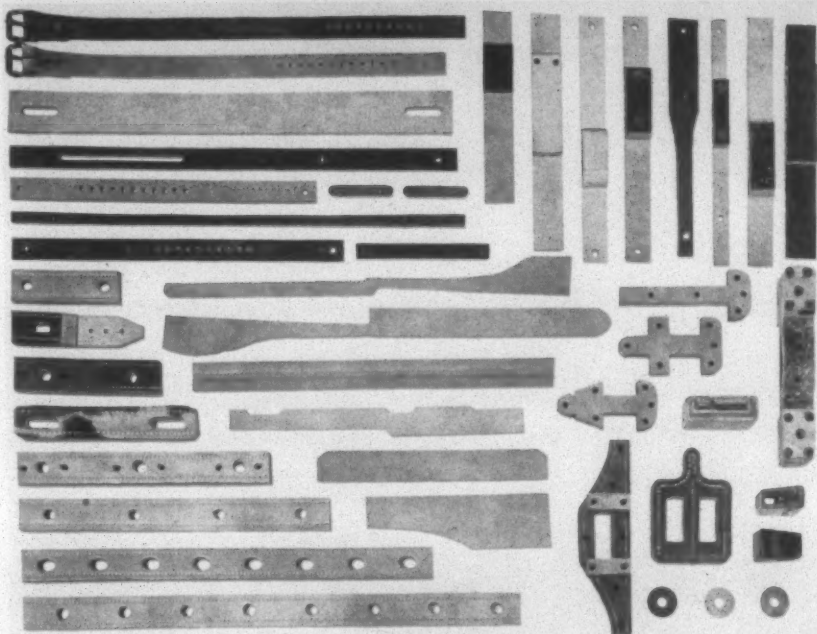
¶ Address of the National Industrial Conference Board is 247 Park Avenue, New York 17, N. Y.—Eds.

#### DAMASK DOPE FOR DUTCH

Having heard of your work in the textile field, we thought perhaps you would be kind enough to assist us with the following problem. We're doing a report on the cotton damask industry of the United States and unfortunately have had very little luck in obtaining information on that type of fabric. We were wondering if you could possibly furnish us with the following data: market conditions existing for that type of

# Champion

## Textile Leathers



SPINDLE BUMPERS

HARNESS STRAPS

SHUTTLE CHECK

HOLD-UP STRAPS

PICKERS - WASHERS

BINDER LEATHER

LOOM STRAPPING

BOTH LEATHER AND FABRIC

"SPECIALTIES"

Specializing in specialties has developed the keen precision workmanship that characterizes the "Champion" Line on every type of standard requirement in textile leathers.



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MAIN OFFICE      EASTERN DIVISION

CHOOSE CLARK  
*All down the line*

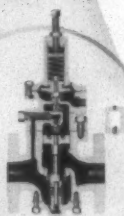
## A NEW TRAP JOINS A FAMOUS LINE

# Clark Traps

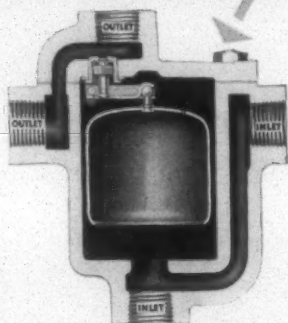
### INTRODUCING THE NEW CLARK "60"



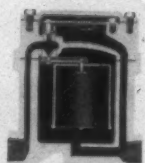
Series "80"  
Inverted Bucket  
Steam Trap



"CRV"  
Pressure  
Regulator



A small trap with big trap features. Positive seating with guided disc. Equipped with two inlets and two outlets for easy installation for horizontal, vertical or angle connections.



Series "70-T"  
Inverted Bucket and  
Blast Steam Trap

Let Clark's 40 years of experience be your guide in selecting the proper trap or valve for your drainage needs.

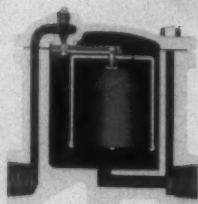


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THE CLARK MANUFACTURING CO.  
1841 EAST 38th STREET • CLEVELAND 14, OHIO

# Clark

TRAPS — FLOAT, INVERTED BUCKET, OPEN BUCKET  
AND VACUUM • REDUCING VALVES • STRAINERS



Series "70"  
Inverted Bucket  
Steam Trap

#### BULLETIN BOARD

fabric; types of articles made from it; color trends and design trends; methods of distribution for that type of fabric; any information you may have on the promotional angle; production figures for 1946-47.

Marti Truboff  
Market Research  
Trade Promotion Division  
The Netherlands Chamber of  
Commerce In the United  
States, Inc.  
41 East 42nd Street  
Room 721  
New York 17, N. Y.

¶ Cotton damask is made into tablecloths, napkins and at times sports items. It is usually sold white (bleached and mercerized) with a permanent finish. The fabric is woven on jacquard looms producing figured designs such as flowers and other effects. Damask fabrics sometimes are printed as well as woven from dyed yarns. With certain finishes jacquard damask may be used for bedspreads, draperies, upholstery and wall coverings, towels, table scarfs, etc.

As to production we have the following figures: 1,836 looms operating April 3, 1948; production during the January-March quarter of 1948, 7,355,000 linear yards; during October-December quarter of 1947, 7,379,000 linear yards; during January-March quarter of 1947, 8,614,000 linear yards. 32,223,000 linear yards were produced in 1947 (7,379,000 in October-December, 7,233,000 in July-September, 8,997,000 in April-June, and 8,614,000 in January-March) compared with 32,551,000 linear yards produced in 1946. Looms operating Jan. 3, 1948, 1,972; Sept. 27, 1947, 1,988; June 28, 1947, 2,063; March 29, 1947, 2,314.

We have no information relative to market conditions existing for damask fabrics, nor are we able to tell you anything about methods of distribution or promotional activities. You might secure this information from one of the following firms: Bates Fabrics, Inc., 80 Worth Street, New York 13, N. Y.; Callaway Mills, Inc., 295 Fifth Avenue, New York 16, N. Y.; Neisler Mills, Inc., 40 Worth Street, New York 13, N. Y.; Taylor, Pinkham & Co., Inc., 55 Worth Street, New York 13, N. Y.—Eds.

#### WORD GETS AROUND

Sirs:

I would like to read an article published on Page 28 of the Feb. 15, 1947, TEXTILE BULLETIN, Vol. 71, No. 12. Could I obtain a reprint of this article from you. The name of the article is "Industrial Trucks In Textile Manufacturing."

William C. Roe  
211 Confederate Street  
Fort Mill, S. C.

Sirs:

If available, I would appreciate receiving reprints of the following papers: "Naphthol Dyeing, Past And Present" (February, 1948), and "Modern Textile Chemicals" (January, 1948), by Francis Tripp. Thanking you in anticipation of your kindness.

F. L. Billings  
1430 73rd Avenue, West  
Vancouver, B. C., Canada

# AHCOVELS



## For Softness As You Like It

**AHCOVELS\*** bring good draping qualities and a smooth, flexible hand to your cotton, wool and synthetic fabrics. These improved substantive softeners impart softness as you like it.

**AHCOVELS** are permanent; they permit laundering and dry cleaning.

**AHCOVELS** are stable when subjected to heat.

**AHCOVELS** resist yellowing and rancidity.

**AHCOVELS** E, F & R do not affect light fastness or color.

**AHCOVELS** are economical, they cost no more.

*Send for a free sample  
and more complete data.*

\*Trademark Reg.



# 15th Southern Textile Exposition

*Textile Hall*

Greenville, South Carolina

**OCTOBER 4th to 9th, 1948**

- The last Southern Textile Exposition was in 1941. In the past seven years the inventors and manufacturers have made many new inventions and improvements. They will display the latest in textile machinery, equipment, accessories, supplies, primary and fabricating materials and parts.
- Two hundred and twenty exhibitors will be in Textile Hall with their products. Complete, up-to-date, first-hand knowledge may be gained at the Exposition.





## The 15th Southern Textile Exposition

**M**ORE than 230 producers and distributors of items used by textile mills will promote their wares at the 15th Southern Textile Exposition in Textile Hall at Greenville, S. C., Oct. 4-9. The show opens Monday, Oct. 4 at 10:30 a. m. and continues until 9 that night; on succeeding days the schedule is 9:30 a. m. until 9 p. m., except on Saturday, Oct. 9, when closing time is set for 4 p. m. A list of exhibitors, their booth numbers, exhibit features and representatives in attendance, will be found on following pages.

Since early this month workmen have been busy at Textile Hall setting up the exhibits. Back in July Fiske-Carter Construction Co. began the task of repairing and repainting the buildings and erecting booths on the five exhibition floors. During the first week in August Miss Bertha M. Green, secretary for Textile Hall Corp., moved with her assistants from the downtown office in Greenville to the 32-year-old exposition building.

Textile Hall Corp. has sent out hundreds of special invitations to executive officers and operating officials of Southern textile mills. Tickets which will be valid during the entire week have been issued to all of them. All visitors will receive lapel buttons, colored gray for executives, blue for superintendents, orange for master mechanics and green for overseers. Exhibitors have supplied their customers with tickets for the use of mill personnel. No tickets are to be sold to the general public, for the reason that attendance is expected to be so large that there will not be sufficient space in the aisles to accommodate those not connected with the industry.

The housing situation for visitors has been solved, in the opinion of the management. All the hotels and rooming houses are co-operating, and in addition, hundreds of private homes

will be open during Textile Show week for the accommodation of paying guests. One hotel, it is reported, is granting reservations for double rooms which are furnished with one double bed instead of two single beds, and visitors are warned to be prepared for this complication. The Retail Merchants Bureau of the Greenville Chamber of Commerce has requested that representatives of firms not connected with the textile industry by-pass Greenville during the period from Sept. 26 through Oct. 9.

The first Southern Textile exposition was held Nov. 2-6, 1915, in the warehouses of the Piedmont & Northern Railway. The second, Dec. 10-15, 1917, was held in Textile Hall, then not completed. Succeeding shows took place in 1919, 1920, 1922, 1924 (permanent steel annex used for first time), 1926, 1928 (temporary annex used), 1930, 1932, 1935 (postponed from November of preceding year to April because of strike situation), 1937, 1939 and 1941.

The Southern Textile Expositions are organized and managed by Textile

Hall Corp. The following are the directors: Thurmond Chatham, Elkin, N. C.; Donald Comer, Birmingham, Ala.; Herman Cone, Greensboro, N. C.; R. I. Dalton and B. B. Gossett, Charlotte, N. C.; George H. Lanier, West Point, Ga.; H. A. Ligon, Spartanburg, S. C.; J. Spencer Love, Washington, D. C.; W. S. Montgomery, Spartanburg, S. C.; George M. Wright, Abbeville, S. C.; W. H. Beattie, Sydney Bruce, W. W. Carter, C. F. Hatch, Edwin Howard, Ernest Patton, Alan B. Sibley, W. G. Sirrine, F. W. Symmes, and Harold R. Turner, all of Greenville.

W. G. Sirrine is president and treasurer, Alan B. Sibley is vice-president, and Miss Green is secretary. The following is the roster of the management of the show: assistant manager, Paul C. Davis; assistant secretary, William E. Martin; advisor to exhibitors, John F. Ayers; office clerks, Misses Barbara Stafford and Jennie Lee Wehner; housing secretary, Mrs. W. B. Mulligan, Mrs. Sidney Lowe, assistant; director of information, Miss Emily M. Bird, Mrs. Theo T. Graham, assistant.

## Background Of Greenville Show

By W. G. SIRRINE, President, Textile Hall Corp.

**S**OUTHERN TEXTILE EXPOSITION, with its 15th show in Textile Hall, Oct. 4-9, is now in its 33rd year. It was organized at a meeting of the Southern Textile Association in 1915. At that time W. M. Sherard was president; Frank M. Heymer, vice-president; A. B. Carter, secretary and Marshall Dilling, treasurer.

The first exposition board of directors was Robert F. Bowe, chairman; Alonzo Iler, John L. Davidson, M. B. Clisby, D. R. Harriman, J. W. Kelley,

C. P. Thompson, C. L. Candler, A. M. Dixon, L. H. Brown, W. S. Morton and F. Gordon Cobb. The first show was held in warehouses of the Piedmont & Northern railroad, Nov. 2-6, 1915.

Credit should be given to the officers of the Southern Textile Association and to the executive committee of the show, composed of the following: Robert F. Bowe, chairman; A. B. Carter, secretary; Edwin Howard, treasurer; Milton G. Smith, assistant treas-

urer; J. E. Sirrine, chairman hall committee; J. H. Spencer, chairman machinery department; G. G. Slaughter, chairman mill products department; James H. Maxwell, chairman transportation and hotels; David Cone, chairman publicity committee.

The idea of having a permanent home took shape at the 17th semi-annual meeting of the S. T. A. Mr. Bowe reported that Messrs. Heymer, Dilling, Carter and himself had applied for a charter as "Southern Textile Expositions, Inc." and that arrangements had been made for erecting a building. Textile Hall was built in 1916, by Fiske-Carter Construction Co., during the administration of Frank E. Heymer. An exposition was held Dec. 10-15, 1917. Stock was issued and bonds to the amount of \$110,000 were authorized.

For the first three years the expositions were managed by A. B. Carter, with the assistance of committees from the Southern Textile Association, engineers and textile men of the Piedmont section. The first president after incorporation was B. E. Geer. Ellison Smyth was vice-president, Edwin Howard treasurer, and G. G. Slaughter secretary. A. B. Carter succeeded Mr. Slaughter as secretary. He was followed successively by R. S. Huntington and D. B. Stover. William G. Sirrine became president in 1920, and John A. McPherson vice-president.

In 1923, when it was realized that Southern Textile Expositions, Inc., could not be a success as a commercial institution its charter was surrendered. It became incorporated as Textile Hall Corp. under the laws governing scientific, educational institutions and other public enterprises in which no element of profit would enter. All who had

subscribed for stock, surrendered their certificates to be cancelled. Miss Bertha M. Green became secretary in 1925.

In 1926 we built the steel annex. Additional room was necessary. Two years later we were able to buy the land upon which it stood. With an alley on two sides it cost about \$18,900. The lot plus the building with concrete floor represents an additional outlay of about \$16,000. Later we were able to obtain a fair price on a 61-foot lot in rear of the annex and purchased it, thus giving a permanent entrance from Hampton Avenue.

The buildings are kept in good condition. We have a capable janitor who makes minor repairs, feeds the furnaces, cleans the flues and registers, and generally keeps the property in repair. Skilled work such as must be done on the roof, transformers, boilers, blowing equipment, elevator, plumbing, etc., is done by contract. We have improved our premises by drainage, both surface and underground.

The details of our shows are planned long ahead of the opening day. When one ends preparations for the next are begun. We know all the regular exhibitors and are familiar with their requirements. Whether our patrons call, telephone or write we respond promptly. Changes in the diagrams must be made for every exposition, principally because some years the makers of certain kinds of machinery do not exhibit. When they participate they require large areas to show their products.

Adjustments of space must be made. Exhibitors receive every possible attention and consideration. We do not permit official catalogs or anything in the hall demanding an outlay other than space rentals and necessary ex-

penses. We employ no advertising agents or special writers. We do all the work in our own office. Before each show we revise our card index of presidents, treasurers, superintendents, master mechanics, and department heads of Southern cotton mills. There is sent before each exposition to each of these executives a cordial invitation. Prior to opening day, we send a season pass to each with his name written thereon. This close contact with mill officials is one of the reasons we have a large attendance. Regardless of how extensive the exhibits, the success of an exposition depends finally upon attendance. Not numbers alone. It is the class of attendance which counts.

It may be truthfully said that the marvelous development of the textile industry is due in a measure to them and to the exhibitors who show the products of their shops to the spinners and weavers of the nation. Everything which marks progress in the manufacture of cotton, rayon, silk and wool into yarn and cloth, and the bleaching, dyeing and finishing is seen at the expositions. It is here that the inventor, the tool maker and the mechanic have an opportunity to exhibit their products.

It is impossible to name all those who have assisted in the development of the expositions. The textile journals gave prominence to the conception of the idea. They have ever since given wide publicity to the preparation for the shows, and have given columns describing the displays. The editors of the textile journals likewise have been called upon many times for advice and assistance. It has always been cheerfully given. Our neighbors have taken an interest in the expositions and some have granted us use of their adjoining premises on reasonable terms.

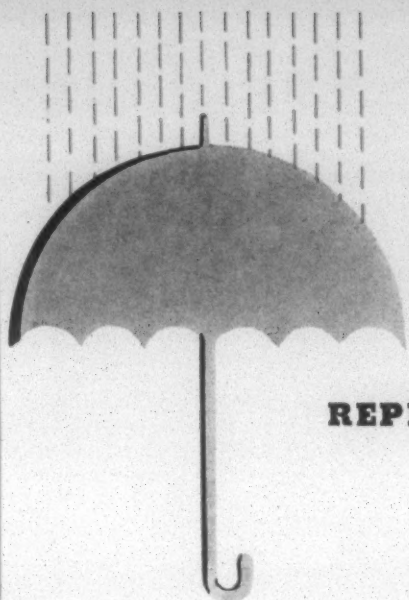
We are grateful to those who have taken space and made exhibits at the textile shows which are our major enterprises. The foundation of our success is the friendship of our exhibitors. It is impossible to express the extent of our obligation to them.

We also express sincere thanks to the Southern mill executives who have come to our shows and sent their department heads and employees. We hope as time goes on that each successive exposition will find present a larger number of workers in Southern textile plants. It is not only encouraging to the exhibitors, but is positive

## REGISTER WITH TEXTILE BULLETIN

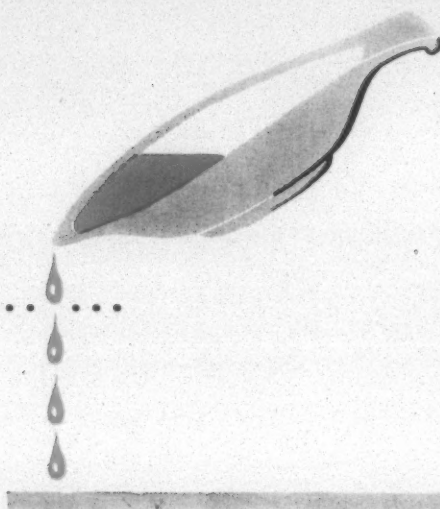
### Booth No. 204, Second Floor, Main Building

Textile mill officials and operating executives are requested to register at TEXTILE BULLETIN Booth No. 204 as soon as possible after reaching Textile Hall. Continuing the service it has rendered at past expositions, this journal will publish, at frequent intervals each day, Exposition Bulletins carrying the names of those textile manufacturers attending the show, as well as announcements of interest to exhibitors. In attendance at the booth will be David Clark, editor and publisher; Junius M. Smith, vice-president and business manager; F. Roy Carey, vice-president and Eastern manager; James T. McAden, Jr., editorial director; R. J. Shinn, field advertising representative; and Ben C. Thomas, field circulation representative.



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**RESISTS STAINS....**



IN A  
WIDE  
VARIETY  
OF TEXTILES...

# PARAMUL 115

**WATER REPELLENT**

PARAMUL® 115 Water Repellent, — another important development of Cyanamid Research for the textile industry — has a double purpose in life: to provide a better water repellency and a superior resistance to water borne stain. And how *well* it does *both* is proved many times a day in a wide variety of fabrics — cottons, rayons, linens and woollens — for outerwear and equipment purposes.

An aqueous solution of wax and aluminum salts,

PARAMUL 115 Water Repellent saves time and money in application, is easy to use, odorless and harmless to skin and fabric. It provides complete stability over a wide range of temperatures and can be safely stored for a long time.

Take advantage of Cyanamid's expert technical staff to achieve the best results *possible* in renewable water repellency and renewable stain resistance.

AMONG CYANAMID PRODUCTS FOR THE TEXTILE INDUSTRY ARE:

AQUASOL® Sulfonated Castor Oils; NO-ODOROL® Finishing Oils; DECERESOL® Wetting Agents; PARAMUL® 115 Water Repellent; Penetrants, Softeners, Finishes, Sizing Compounds, and other specialties and Heavy Chemicals. For low-cost chemical equivalent of distilled H<sub>2</sub>O . . . FILT-R-STIL® Demineralizing Units.

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SALES OFFICES: Boston, Mass.; Philadelphia, Pa.; Pittsburgh, Pa.; Baltimore, Md.; Charlotte, N. C.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; Detroit, Mich.; Kalamazoo, Mich.; St. Louis, Mo.; Los Angeles, Calif.; San Francisco, Calif.; Seattle, Wash. In Canada: Dillons Chemical Co. Ltd., Montreal and Toronto.



**American  
Cyanamid Company**

Industrial Chemicals Division

30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

benefit and a decided advantage to every visitor to see the varied and interesting exhibits. It is impossible to express adequately our thanks to all who have aided Textile Hall. I take this opportunity to acknowledge our great obligation to all who have in any way endorsed and helped in carrying out our undertakings.

## EXHIBITORS

### ABBOTT MACHINE CO.

Wilton, N. H., and Greenville, S. C.  
BOOTH NO. 317-A.

EXHIBIT: Reception booth featuring illustrated pamphlets pertaining to Abbott automatic winders and automatic quillers.

In attendance: L. S. Ligon, S. A. Roane.

### ACME STEEL CO.

Chicago, Ill.  
BOOTH NO. 489-A.

EXHIBIT: Acme Friction Seal method of baling. Also demonstration of No. 3 Steel-strapper mounted on a new streamlined tool mount; Acme Silverstitcher will be shown with samples of fibre carton stitching.

In attendance: G. R. Easley, C. A. Carrell, M. M. Brown, J. E. Ott, J. G. Bucuss.

### ALDRICH MACHINE WORKS

Greenwood, S. C.  
BOOTH NO. 250.

EXHIBIT: Synthetic fiber blending and opening equipment; air conditioning equipment.

In attendance: A. P. Aldrich, Jr., W. D. Wornall, J. E. Brown.

### ALLEN CO.

New Bedford, Mass.  
BOOTH NO. 108-A.

EXHIBIT: Allen high-speed warper, creel, wooden warper beam and adjustable wooden loom beam head.

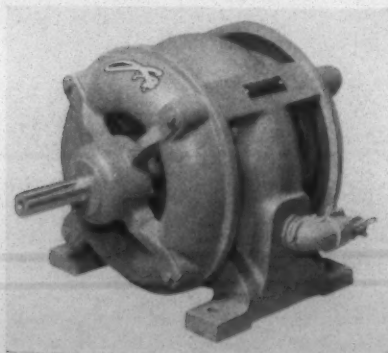
In attendance: James E. Oliver, L. E. Wooten.

### ALLENTOWN BOBBIN WORKS, INC.

Allentown, Pa.  
BOOTH NO. 316-A.

EXHIBIT: Bobbins and spools used in the throwing of all types of yarns.

In attendance: Henry W. Mack.



Louis Allis motor.

### THE LOUIS ALLIS CO.

Milwaukee, Wis.  
BOOTH NO. 212.

EXHIBIT: Adjusto-Spede (variable speed, A. C. drive), Textile Motor, Lume Motor, Splash-Proof Motor.

In attendance: R. C. Wareham, Karl Boehmer, C. G. Skidmore, Louis Allis, Jr.

### ALUMINUM CO. OF AMERICA

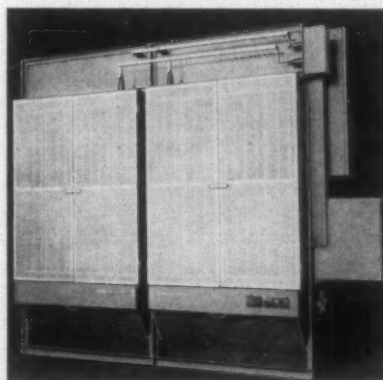
Pittsburgh, Pa.  
BOOTH NOS. 455-56.

EXHIBIT: Aluminum and magnesium products stressing the applications of both light metals in the textile field. Samples of typical castings, forgings, tubing, extrusions and sheet products. Samples of textile accessories such as cloth rolls, bobbins, spools and rehabilitated loom beam with aluminum barrel. Samples illustrating various methods of fabrication and assembly, welding, brazing and finishing of both metals.

In attendance: H. H. Nuernberger, C. Braglio, E. G. Kort, T. J. Wisecarver, K. Usher, E. J. Nelson, W. D. Mathers, F. Conrade, J. B. West, P. T. Teague, R. Smith, D. M. Johnston, H. A. Faisel, C. S. Mercer, W. G. Dow, C. Weiss, E. P. Stanier, G. Clement, H. A. Lilly, C. W. Scott, Ray Penrose, W. S. Ellis.

### AMERICAN AIR FILTER CO., INC.

Louisville, Ky.  
BOOTH NO. 474.



Two-unit assembly of American Air Filter Electro-Matic.

EXHIBIT: Electro-Airmat (dry type electronic precipitator which employs Airmat and electrostatically charged paper as the filtering medium); Electro-Matic (automatic, self-cleaning electronic precipitator); Electro-Cell (plate type electronic precipitator).

In attendance: Howard Pound, Harry J. Noles, John M. Rittelmeyer, Kirk Cousart.

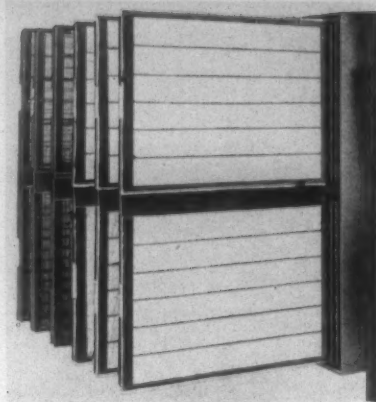
### AMERICAN AIR FILTER CO., INC.

(Dust Control Division)  
Louisville, Ky.

BOOTH NO. 316-D.

EXHIBIT: New adaptation of the Airmat dust arrester designed specifically for efficient dust removal from pickers, openers, napping, shearing and similar lint producing operations.

In attendance: W. L. Jacobs, W. H. Likens, Don McRae, Kirk Cousart, T. O. Curlee.



Two-unit assembly of American Air Filter No. 6A Airmats.

### AMERICAN CRAYON CO.

Sandusky, Ohio  
BOOTH NOS. 322-23.

EXHIBIT: Empire textile mill crayons, lumber crayons, "5000" marking crayon, many additional specialized markers from the Old Faithful line; Kaysan floor finish.

In attendance: John Hester, Lon Watters.

### AMERICAN LAVA CORP.

Chattanooga, Tenn.  
BOOTH NO. 343.

EXHIBIT: Abrasion resistant ceramic thread guides for all types of textile machinery; also introducing Alsimag 491, a ceramic material said to have the wearing qualities of sapphire.

In attendance: J. B. Shacklett, G. E. Richter, W. M. Brown, O. D. Riseden.

### AMERICAN LUMBER & TREATING CO.

Chicago, Ill.  
BOOTH NO. 436.

EXHIBIT: Wolmanized pressure-treated lumber for mill and house construction.

In attendance: R. B. Putman, J. E. L. McCall, O. W. Boehm, T. J. Flynn.

### AMERICAN MONORAIL CO.

Cleveland, Ohio  
BOOTH NOS. 111-12.

EXHIBIT: Automatic cleaning equipment for textile machines and ceilings; Monorail equipment and cranes, both hand and power operated, as well as automatic dispatch carrier.

In attendance: E. H. Doerger, J. P. Lawrence, C. deV. Miller, H. A. Rehfeld, E. F. Kulp, L. R. McEachern, O. L. Pogue, W. L. Adamson, C. O. Setzer, L. C. Bobo, E. G. Peterson.

### AMERICAN PAPER TUBE CO.

Woonsocket, R. I.  
BOOTH NO. 108.

In attendance: Dannitte M. Beattie, Harald M. Amrhein, Robert J. Guerin, Edmond H. Guerin, Jr., Edwin L. Birch, Sam Adams, J. L. Coffield, Jr.

### AMERICAN PULLEY CO.

Philadelphia, Pa.  
BOOTH NOS. 212-13.

EXHIBIT: Working installation of Ameri-



Every textile executive knows that most of his profits in the foreseeable future must come from increased production, reduced operating costs and improved quality. He also knows that he has a choice of modern winding equipment which will produce according to these conditions, at least temporarily. The trick is to **INSURE** such profits over a period of years so that the new equipment will have an opportunity to pay for itself. That requires **FLEXIBILITY** for the fibre requirements of a mill may change overnight in these fluid times. The **FOSTER Model 102** is the **ONLY** winder of its type which has such flexibility, in addition to the other qualifications.

## How to **INSURE** your winding profits

Here's the story in brief:—

- FLEXIBILITY**— Will handle any count or type staple yarn with same traverse mechanism—any angle of wind from 9° to 18°—any ordinary taper. Can be equipped to wind knitting cones, warper cones, dye packages, tubes or short traverse cheeses, one type on each side of the machine if desired.
- INCREASED PRODUCTION**— Doubles production over obsolete models because of high winding speeds (up to 700 y.p.m.) and labor saving devices mentioned under "ECONOMY". 7" traverse packages instead of standard 6", if desired.
- ECONOMY**— Reduces operating costs  $\frac{1}{3}$  under obsolete models because of self threading tension devices, easy doffing, 7" traverse package, if desired, and empty bobbin conveyors which empty into standard sized trucks. Repair costs as low as \$3.50 per year per 100 spindle machine.
- QUALITY PRODUCT**— Automatic inspection. Conditioned yarn. Convex base prevents underwinding and nipping. Ribbon breaker prevents ribbon wind. Uniform density and properly shaped cones. Minimum tension on soft twist yarns prevents excessive breakage.

*Insure your winding profits.  
Specify FOSTER MODEL 102.  
Send for Bulletin A-95  
for complete data.*

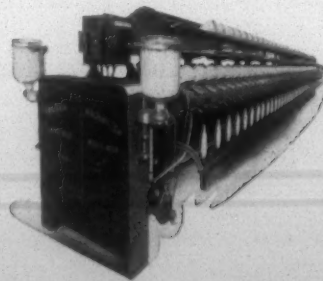
### FOSTER MACHINE CO.

Westfield, Mass., U.S.A.

Southern Office: Johnston Bldg., Charlotte, North Carolina; Canadian Representative: Ross-Whitehead & Co., Ltd., University Tower Bldg., 660 Ste. Catherine Street, West, Montreal, Quebec, European Representative: Muschamp Taylor Ltd., Manchester, England.

## FOSTER MODEL 102

*The Flexible Winder*



FOR COTTON, MERCERIZED, WOOL, WORSTED, MERINO, SPUN SILK OR SPUN RAYON YARNS

can reduction-motor base drives; mechanical power transmission equipment—flat pulleys, V-belt sheaves, V-belts, Eco-o-matic motor bases, speed reduction units, motor pulleys.

In attendance: J. E. Williams.

AMERICAN SAFETY TABLE CO., INC.  
Reading, Pa.

BOOTH NO. 227.

EXHIBIT: AMCO motor drive, individual stand and motor, group drive tabling, collar machine.

In attendance: Julian C. Frankel, Bob Moreland, Buck Batchelor, Max T. Voigt.

AMERICAN WOOL & COTTON  
REPORTER

Boston, Mass.

BOOTH NO. 208.

EXHIBIT: Trade journal, and old loom made by hand from pine in mid-18th Century.

In attendance: J. Randolph Taylor, Frank P. Bennett, III.

ANCHOR POST FENCE DIVISION  
(Anchor Post Products, Inc.)

Baltimore, Md.

BOOTH NO. 236.

EXHIBIT: Anchor industrial fence.

In attendance: P. F. Cuttino, R. D. Logee, T. F. May, Marion Boyd, Carol Noe.

ARMSTRONG CORK CO.  
Lancaster, Pa.

BOOTH NO. 140.

EXHIBIT: Accotex cots and aprons, cork cots, loom supplies, roll shop equipment including a new heavy-duty cot buffing machine.

In attendance: J. V. Ashley, W. B. Tucker, T. L. Hill, H. H. Jordan, W. T. Coker, Jr., J. F. Kline, A. C. Littlejohn, W. A. Simmons, P. S. Bowden.

ARMSTRONG MACHINE WORKS  
Three Rivers, Mich.

BOOTH NO. 429.

EXHIBIT: Glass model of 812 Armstrong steam trap operating on steam at seven-pound pressure, showing how trap handles air and dirt as well as condensate; working model of C-2 steam humidifier.

In attendance: O. E. Ulrich, Allan T. Shepherd, Theo. Abbey.

ASHWORTH BROS., INC.  
Greenville, S. C.

BOOTH NOS. 120-21.

EXHIBIT: Card clothing and wire conveyor belts.

In attendance: R. C. Ashworth, J. M. Reed, Carson J. Simms, A. E. Johnston, A. E. Johnston, Jr., Thurman F. Hart, E. H. Isenhour.

ATLANTA BRUSH CO.  
Atlanta, Ga.

BOOTH NOS. 453-54-A.

EXHIBIT: Textile brushes, featuring new plastic materials for filling.

In attendance: T. C. Perkins, Howard R. Cook, William C. Perkins, George B. Snow, Fred Winecoff.

ATLANTA PAPER CO.  
Atlanta, Ga.

BOOTH NO. 245.

EXHIBIT: Packaging and shipping supplies for the textile industry.

In attendance: K. V. Robinson.

ATLANTA MACHINE WORKS  
Atlanta, Ga.

BOOTH NO. 105\*

EXHIBIT: Five-roll ball bearing drawing frame, ball bearing top spinning rolls, separator blades.

In attendance: John C. Turner, Hugh I. Day.

THE BAHNSON CO.  
Winston-Salem, N. C.

BOOTH NO. 247-A.

EXHIBIT: Industrial humidifying and air conditioning equipment.

In attendance: S. C. Stimson, I. L. Brown, Deparz Stimson, R. B. Crosland.

BARBER-COLMAN CO.  
Rockford, Ill.

BOOTH NO. 244.

EXHIBIT: Reception booth.

In attendance: John H. Spencer.

BARCO MFG. CO.  
Chicago, Ill.

BOOTH NOS. 301-02.

EXHIBIT: Ball, Swivel and revolving type joints.

In attendance: H. S. Kuhn.

F. D. BARRINGER CO.  
Atlanta, Ga.

BOOTH NO. 251-C.

EXHIBIT: Products of Moore Co. (ventilating fans, pressure blowers); Cogsdill Twist Drill Co. (twist drills and reamers); Vaco Products Co. (Amberyl handle screw drivers).

In attendance: F. D. Barringer, George L. Morton, John F. Falls, Thomas J. Myler, Stanley Allen Hunt.

BASSICK CO.  
Bridgeport, Conn.

BOOTH NO. 439.

EXHIBIT: Casters for industrial uses; thread guards for caster wheels.

In attendance: A. J. Israel, E. P. Ripley.

BATSON MFG. CO., INC.  
Greenville, S. C.

BOOTH NO. 327.

EXHIBIT: Wooden picker sticks, binders, jacksticks, clearer boards, cones, cone adapters, loom lays, reed caps, beam barrels.

In attendance: John P. Batson, Louis P. Batson, Sr., R. E. L. Holt, Jr., Louis P. Batson, Jr., Richard A. Owings.

BELDING BASKET CO.  
Belding, Mich.

BOOTH NO. 483 (with Divine Bros. Co.).

EXHIBIT: Canvas baskets and trucks for textile mills.

In attendance: Edgar E. George, L. A. Fitzjohn.

BIJUR LUBRICATING CORP.  
Long Island City, N. Y.

BOOTH NO. 104.

EXHIBIT: Central lubricating system installed on textile machinery; bulletins.

In attendance: W. O. Wright, Clyde M. Lassiter, Jackson L. Parker.

BIRCH BROS., INC.  
Somerville, Mass.

BOOTH NO. 218.

EXHIBIT: Heavy-duty ball-bearing scutcher, welt straightener, patent adjustable slot vacuum extractor box, Coronation sewing machine, Supreme butt-seam gray room sewing machine, angular guides, conical opener.

In attendance: Harold W. Birch, John C. Cosby, Clifford W. Birch, Jr., Richard Briggs, Emilio L. Caizzi.

BRADLEY WASHFOUNTAIN CO.  
Milwaukee, Wis.

BOOTH NOS. 305-07.

EXHIBIT: Washfountains, multi-stall showers, drinking fountains.

In attendance: C. H. Berenger.

BREUER ELECTRIC MFG. CO.  
Chicago, Ill.

BOOTH NO. 483-A.

EXHIBIT: One to five-horsepower vacuum cleaners, floor scrubbing and polishing machines.

In attendance: A. M. Anderson, P. W. Williams, A. B. Little, S. R. Brookshire.

BROWN INSTRUMENT CO.  
Philadelphia, Pa.

BOOTH NO. 420-22.

EXHIBIT: Controllers, recorders, transmitters, receivers for textile processing.

In attendance: Karl Selden, Jr., D. W. Choate, Thomas Pitts, E. Andrews, G. W. Massey, R. E. Fishburn, C. W. Bowden, Jr.

BUENSOD-STACEY, INC.

New York, N. Y., and Charlotte, N. C.

BOOTH NO. 209.

EXHIBIT: Central station humidifier, humidity controller, Metalast protective coatings used in air conditioning equipment.

In attendance: A. C. Buensod, R. O. McGary, R. M. Warren, Jr., Owen Merwin.

BURLINGTON ENGINEERING CO.,  
INC.

Graham, N. C.

BOOTH NO. 492.

EXHIBIT: 300-pound Inconel steel dye machine.

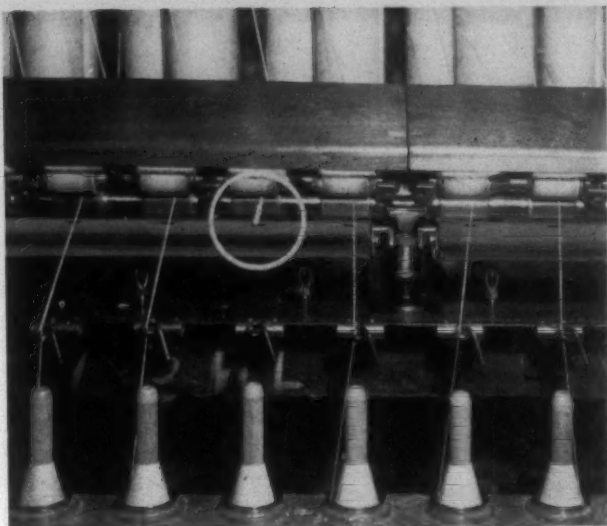
In attendance: J. A. Okey, D. L. Lomax, W. J. Newcomb.

BURROUGHS ADDING MACHINE CO.  
Detroit, Mich.

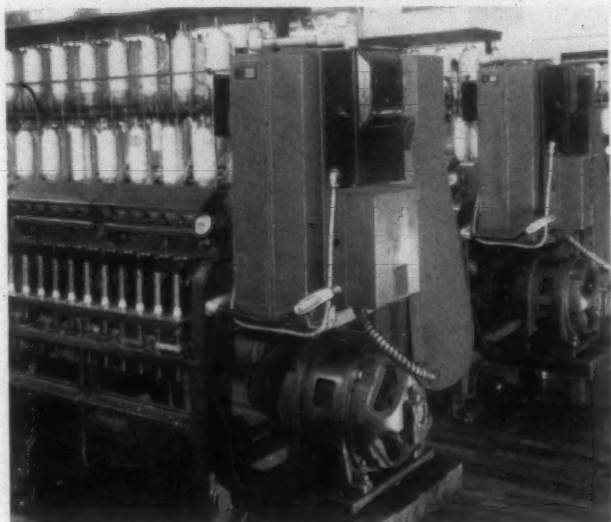
BOOTH NOS. 351-52.

EXHIBIT: New calculator, calculating billing, desk machines; machines for handling billing, accounts receivable; complete accounting plans, payroll, wage accrual and summary lists.

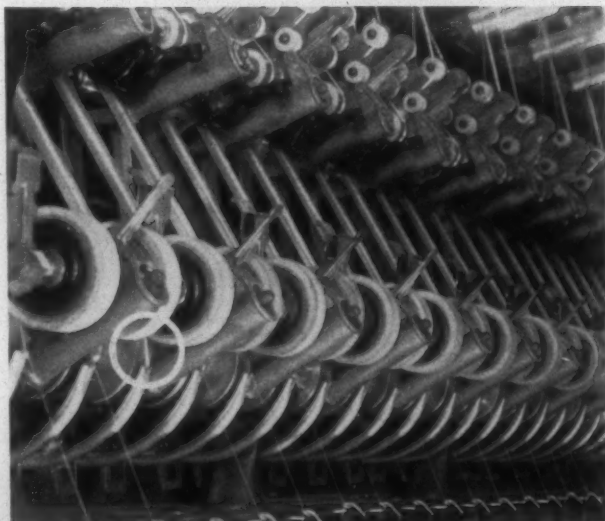
In attendance: H. H. Daywitt, E. C. Dawson.



**COTTON SYSTEM**



**UNIT TYPE EQUIPMENT**



**WOOL AND WORSTED SYSTEM**

# Equip Your Mill With



and obtain these results:

- **INCREASED PRODUCTION**

Higher frame speeds  
More productive spindles  
Less frame stoppage  
Less ends down  
Better running work

- **IMPROVED YARN QUALITY**

No spinning doublings  
Less slubs, gouts and end piecings  
Improved end piecings  
No "wild" or flying ends

- **LOWER MANUFACTURING COSTS**

Less spinning, cleaning and sweeping labor  
Improved and controlled waste salvage  
Less overhead per production unit  
Reduced spinner training time

*These benefits spell profits to  
you and better jobs for labor*

VISIT OUR  
**BOOTH 404**  
Southern Textile Exposition  
Greenville, S. C.

Continental Europe  
and South America:  
LUWA, S. A.  
Zurich, Switzerland

Canada:  
Ian M. Haldane & Co.  
P. O. Box 54, London, Canada

Mexico:  
Tecnotex, S. A., Monterrey 101,  
Mexico, D. F.

**Pneumafil Corporation**

**Little Building,**

**Boston 16,**

\*Registered  
Trade Mark

**Mass.**

**Pneumafil Corporation • Charlotte 6, N. C.**

CAROLINA BELTING CO.  
Greenville, S. C.

BOOTH NO. 246.

EXHIBIT: Rusco strapping and endless woven belting, Hay leather aprons and tapes, Punch-Lok products; a Spingunny, made in 19th Century, which, starting with seed cotton, gins, cards and spins the fibers into finished yarn.

In attendance: Peter F. Madsen, Earle W. Sargent, James E. Hay, C. H. McKee, C. T. Allen, Jake Slaughter, Fred W. Hesse, Charles F. Miller.

CLARK EQUIPMENT CO.  
Battle Creek, Mich.

BOOTH NOS. 139; 138-B.



Clark Clipper fork truck equipped with cotton clamp.

EXHIBIT: 2,000-pound electric battery-powered Clipper fork truck equipped with Clark universal cotton clamp; 4,000-pound electric battery-powered Carloader fork truck equipped with Hi-Lo-Stack uprights; 2,000-pound gas-powered fork truck with tapered chisel forks.

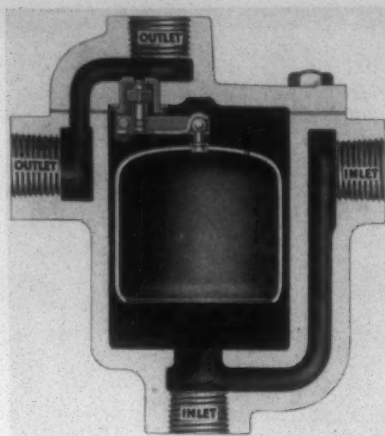
In attendance: James H. W. Conklin, Russell F. Oakes, Everett M. Sharp, George Hewitt, George E. Boyce, E. V. Wiley, V. O. Snyder, Peter Paul Lukas.

CLARK MFG. CO.  
Cleveland, Ohio

BOOTH NOS. 135, 134-B.

EXHIBIT: Inverted bucket, open bucket and float type of steam traps; pressure regulators and reducing valves; strainers and steel globe valves.

In attendance: John L. Mainwaring, W. P. Webster, W. T. Harding, Jr., R. S. Hudgins, Jr., John Q. Marshall.



Clark Mfg. Co. inverted bucket steam trap.

CLINTON INDUSTRIES, INC.  
Clinton, Iowa

BOOTH NOS. 205-06.

EXHIBIT: Reception booth.

In attendance: George E. Corson, R. C. Rau, B. L. Estes, Grady Gilbert, Jack Gibson.

COFFING HOIST CO.  
Danville, Ill.

BOOTH NO. 426.

EXHIBIT: Complete line of lifting and pulling equipment.

In attendance: J. R. Coffing, F. L. Dwiggins.

THE COLSON CORP.  
Elyria, Ohio.

BOOTH NO. 474.

EXHIBIT: Trucks and casters designed especially for handling materials in textile plants.

In attendance: F. Harmon.

COLUMBIA SUPPLY CO.  
Columbia, S. C.

BOOTH NO. 479.

EXHIBIT: Wells metal cutting band saw; South Bend lathes; Ezy-Apart spinning frame drum spreader and arbor remover; anti-friction loom thrust bearings.

In attendance: C. L. Bradley, W. F. Renner, Henry Essick.

CONTAINER CORP. OF AMERICA  
Chicago, Ill., and Philadelphia, Pa.

BOOTH NOS. 314-316.

EXHIBIT: Cartons and shipping containers developed for special textile packaging requirements.

In attendance: Mag Gaukerud, J. E. Purvis, F. B. Bruce, J. P. Leavitt, Mrs. R. G. Macintosh, Miss Mary K. Heisler.

CONTINENTAL-DIAMOND FIBRE CO.  
Spartanburg, S. C., and Newark, Del.

BOOTH NO. 106.

EXHIBIT: Vulcanized fibre roving cans, trucks and boxes; Celoron, Dilecto and Havg laminated plastics for gears, bearings, bobbins, etc.

In attendance: C. L. Simmons, A. D. Gray, C. L. Simmons, Jr., J. M. Stone.

CORN PRODUCTS SALES CO.  
Greenville, S. C.

BOOTH NO. 457.

EXHIBIT: Starches, sugars and dextrans in bulk form.

In attendance: J. Alden Simpson, E. W. Schmitt, A. A. Harden, L. Hawley Kelley, W. Rouse Joyner, H. L. Bailey, James R. Hill, Earl G. King, Gordon E. Wood.

THE COTTON-TEXTILE INSTITUTE, INC. (Division of Technical Service)  
Clemson, S. C.

BOOTH NO. 228.

EXHIBIT: Cotton fiber testing equipment.

In attendance: John T. Wigington, Helen G. Beasley, Helen L. Evans.

THE DANA S. COURTNEY CO.  
Chicopee, Mass.

BOOTH NO. 127.

EXHIBIT: See listing for Watson & Desmond.

CURTIS & MARBLE MACHINE CO.  
Worcester, Mass., and Greenville, S. C.

BOOTH NO. 239.

EXHIBIT: Reception booth.

In attendance: Ralph L. Marble, Leland F. Remington, Frank H. MacKay, Walter F. Woodward.

CUTLER TEXTILES, INC.  
Greensboro, N. C.

BOOTH NO. 248-A.

EXHIBIT: Slixonice saddles and cap bars.  
In attendance: Roger W. Cutler.

DAILY NEW'S RECORD  
New York, N. Y.

BOOTH NO. 320.

EXHIBIT: Trade newspaper.

In attendance: Members of editorial and advertising staffs.

DARNELL CORP.  
Long Beach, Cal.

BOOTH NOS. 212-13.

EXHIBIT: See listing for Greenville Textile Supply Co.

THE DAYTON RUBBER CO.  
Dayton, Ohio.

BOOTH NO. 134.

EXHIBIT: Thorobred loom supplies, Dayco roll coverings and kindred spinning accessories; particular emphasis on Dayco Type SE covering, especially designed for running synthetic and natural fibers.

In attendance: J. O. Cole, William L. Morgan, Thomas W. Meighan, Joseph L. Davis, Thomas A. Sizemore, Harold P. Goller, Walter W. Platt, Emory L. Howell, Harvey M. Manchester, Kenneth K. Karns, Charles J. James, John T. Edvardo.

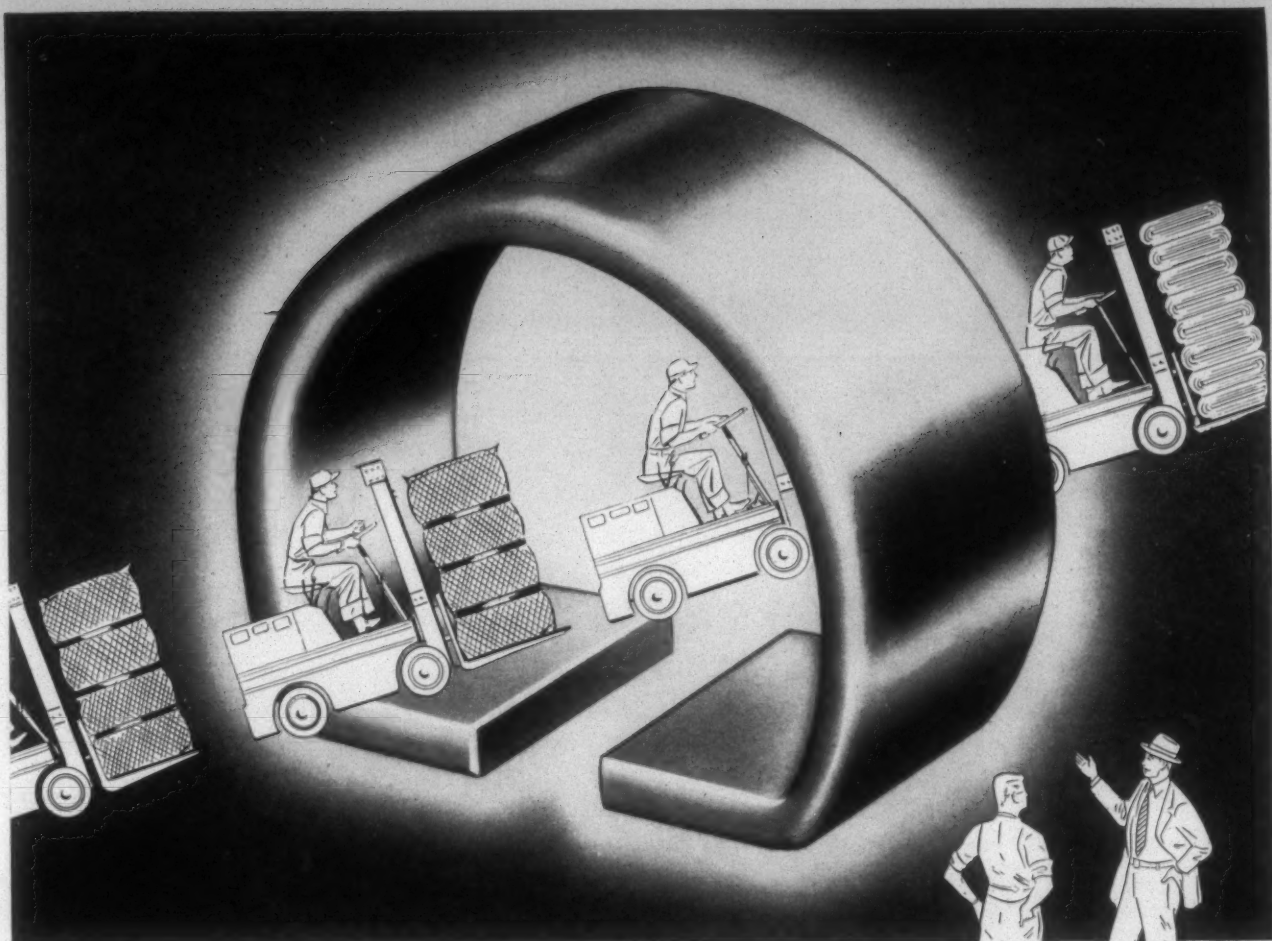
DETEX WATCHCLOCK CORP.

New York, N. Y., and Atlanta, Ga.

BOOTH NO. 345.

EXHIBIT: Watchmen's clocks.

In attendance: E. J. Demarest, P. M. Lancaster, C. A. Butterworth, J. T. Smith.



## YARN "TRAFFIC" FLOWS SMOOTHLY ... *through Victors*

SINCE MOST MILLS' entire output passes through travelers — whether yarn traffic is speeded or stalled depends on your selection.

Which are your travelers — bottlenecks or broad highways? Assuming equipment is in proper condition, if the traveler is **wrong**, the flow of work through the mill will be slowed up at the spinning or twisting, production will lag, quality will suffer, and profits will sag. If the traveler is **right**, you can meet output schedules, cut

down waste, and upgrade quality.

With the many new developments in synthetics and blends, it is becoming more and more difficult to be sure the traveler you use is **right** for the job. To save valuable time in setting up the smooth-running spinning and twisting you want, you need up-to-the-minute information.

There's a man near you who knows what you want to know about choosing travelers. He's the Victor Service Engineer and his

job is to keep abreast of every new development. He will help you select the **right** traveler for any fiber, any blend you may be running. Write, wire, or phone the nearest Victor office for prompt service.



**VICTOR**  
Ring  
**Travelers**

### VICTOR RING TRAVELER COMPANY

PROVIDENCE, R. I. . . . . 20 Mathewson St. . . . . Tel. Dexter 0737

GASTONIA, N. C. . . . . 358-364 West Main Ave. . . . . Tel. 247

## THE 15th SOUTHERN TEXTILE EXPOSITION

DEVOE & RAYNOLDS CO., INC.

New York, N. Y.

BOOTH NO. 229.

EXHIBIT: Color Comfort system of industrial painting.

In attendance: W. L. McCord, Karl Schneidau, M. E. McGregor, L. F. Anderson, Ira H. Washburn.

DIVINE BROS. CO.

Utica, N. Y.

BOOTH NO. 483 (with Belding Basket Co.).

EXHIBIT: Industrial casters and wheels.

In attendance: Edgar E. George, C. M. Mead, W. C. Beddoe.

DODGE MFG. CO.

Mishawaka, Ind.

BOOTH NO. 142-A.

EXHIBIT: Drive for Models E and X looms; outboard, camshaft and crankshaft.

In attendance: George H. Woolley.

E. I. DU PONT DE NEMOURS & CO., INC.

Wilmington, Del.

BOOTH NOS. 443-447.

EXHIBIT: Fiber and fabric display by acetate, nylon and rayon divisions of Rayon Department; color conditioning display by finishes division of Fabrics and Finishes Department.

DURANT MFG. CO.

Milwaukee, Wis.

BOOTH NO. 226-B.

EXHIBIT: Moving display of Productimeter counters.

In attendance: R. B. Winkler, M. E. Herndon, S. R. Hogg.

EASTERN AIR LINES, INC.

Greenville, S. C.

BOOTH NO. 110-B.

EXHIBIT: Map showing route and cities served; model of Constellation aircraft; reservation-ticket counter offering information regarding passenger service and air cargo.

EDGCOMB STEEL CO.

Philadelphia, Pa., and Charlotte, N. C.

BOOTH NOS. 466-67.

EXHIBIT: Stainless steel as used by textile industry.

In attendance: Carl S. Vogel, John B. Owen, Frank F. Rose, W. Paul Holt, Thomas A. Wilder, Leslie Edgcomb, Jr., Edward M. Jackson.

ELASTIC STOP NUT CORP. OF AMERICA

Union, N. J.

BOOTH NO. 216-A.

EXHIBIT: Stop nuts used on looms, shuttles and winders.

In attendance: C. S. Hanson, A. K. Whitaker, J. D. Heaslip, Bruce F. Linck.

ERIEZ MFG. CO.

Erie, Pa.

BOOTH NO. 487.

EXHIBIT: Permanent magnet pulleys for



The Eriez Mfg. Co. booth as it will look at Greenville.

separation of tramp iron from shuttle stock; plate type magnets used with spiked apron feeders; magnet humps for installation into pneumatic lines.

In attendance: R. A. Roosevelt, R. F. Merwin, E. C. Miller, G. A. Amidon.

ESSO STANDARD OIL CO.

Columbia, S. C.

BOOTH NO. 142.

EXHIBIT: Petroleum oils and solvents.

In attendance: R. J. McCarley, Jr., U. G. Crook, W. H. FitzSimons, D. K. Montgomery, J. B. Mayer, L. R. Ambrose, Jr.

THE FAIRBANKS CO.

New York, N. Y.

BOOTH NO. 102.

EXHIBIT: Manually operated hand, platform and floor trucks; industrial truck casters and wheels; bronze and iron body valves; Dart malleable iron unions and union pipe fittings.

In attendance: R. G. Macbeth, Charles L. Haslup, Hugh M. Sims, Michael A. Chalverus.

FAULTLESS CASTER CORP.

Evansville, Ind.

BOOTH NO. 481.

EXHIBIT: Casters and wheels.

In attendance: John H. Davis, Paul A. Blakely, J. Robert Stallings.

FIBRE SPECIALTY MFG. CO.

Philadelphia, Pa.

BOOTH NO. 478.

EXHIBIT: Hard vulcanized fibre roving cans; fibre mill trucks, Dreadnaught trucks, hercules trucks, doff trucks; mill boxes; plain fibre and Steel-Klad fibre.

In attendance: R. G. Henderson, G. B. Scarlett, Ralph Woods, H. R. Chandler, R. A. Craig, C. C. Hannum, Harold Ingram, B. C. Plowden.

FINNELL SYSTEM, INC.

Elkhart, Ind.

BOOTH NO. 110.

EXHIBIT: Combination scrubber-vacuum and portable type floor maintenance ma-

chines; cleansers, sealers, waxes and accessories.

In attendance: J. L. Anderson, L. E. Arnold, W. S. Finnell, J. T. Care, A. P. Sears.

FISHER & PORTER CO.

Hatboro, Pa.

BOOTH NO. 340.

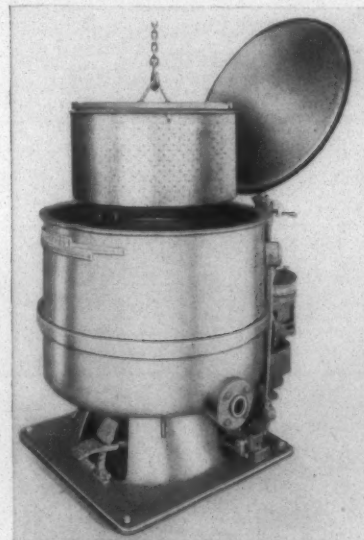
EXHIBIT: Flowrator instruments for measurement and control of flow rate of liquids and gases.

In attendance: Herman Kockritz, Charles Palmer.

FLETCHER WORKS, INC.

Philadelphia, Pa.

BOOTH NO. 124.



Fletcher 30-inch Junior extractor.

EXHIBIT: 30-inch and 40-inch Whirlwind extractors, Junior extractor with removable basket.

In attendance: W. H. Rometsch, F. W. Warrington, George Dudley, T. M. Jackson, Jr.

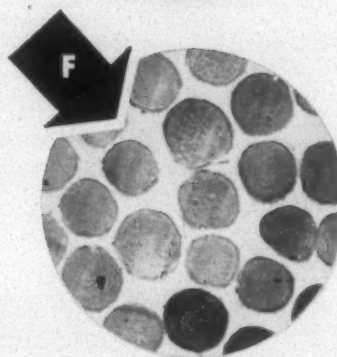
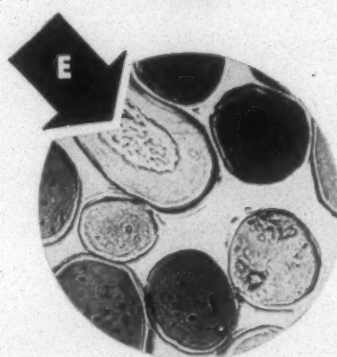
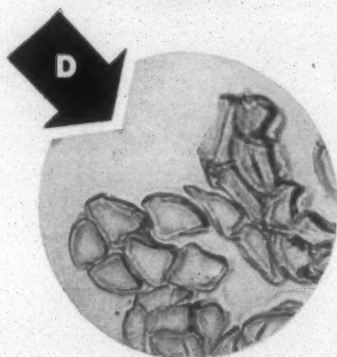
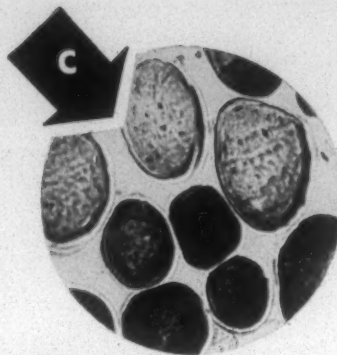
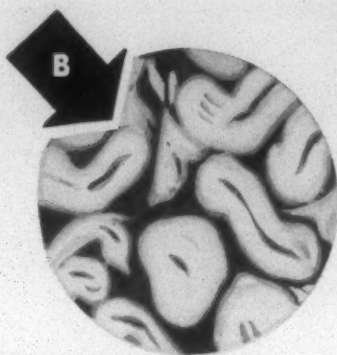
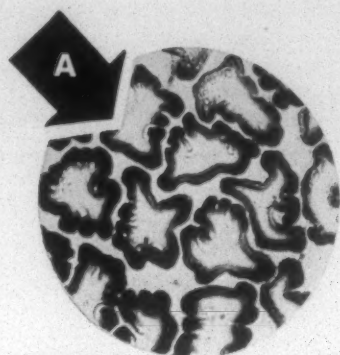
THE FOXBORO CO.

Foxboro, Mass.

BOOTH NOS. 412-13.

EXHIBIT: Instruments for process meas-

# How many of these Fibers can you Identify?



"PHOTOMICROGRAPH COURTESY  
TEXTILE FIBER ATLAS"

You're an expert if you guessed all six. No matter how many of these fibers you named correctly, they're all vital to Stein Hall. Each of these fibers and many more are continually under the scrutiny of our laboratory technicians.

For 82 years, Stein Hall has serviced the textile industry by developing the finest products for warp sizing, printing, and finishing fabrics made from these and other fibers.

Continuous study...endless testing under expert supervision in controlled laboratories means a more efficient operation in your plant.

Trained salesmen will tell you about Stein Hall textile products. Laboratory specialists will back them up. For a textile problem, call on Stein Hall.

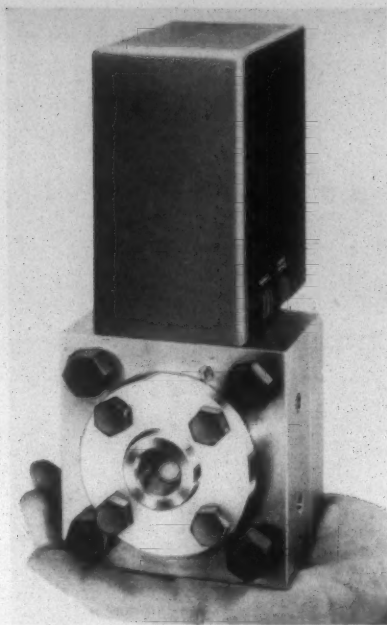
WRITE FOR QUOTATIONS, FREE SAMPLES AND CONSULTATION

A Viscose Rayon  
B Cotton  
C Wool  
D Silk  
E Mohair  
F Nylon



285 MADISON AVE., NEW YORK 17, N. Y.

Branch offices in 16 other cities in the U. S. and Canada



Foxboro D/P cell with pneumatic converter; force balance type; hand holding.

urement and control, divided into bleach house and dye house sections, with emphasis on important recent developments in textile mill instrumentation.

In attendance: W. H. Ridley, H. O. Ehrisman, W. W. Barron, Joseph Escherick, Galen Clark, E. W. Prendergast, S. C. Alexander, J. M. Waters, R. E. Beers, H. H. Michelmore.

**FRIEDMAN-SHELBY DIVISION,  
INTERNATIONAL SHOE CO.**

St. Louis, Mo.

BOOTH NO. 316-C.

EXHIBIT: Shoes for industrial workers.

In attendance: J. C. Hardaway, J. J. Kelley.

**THE FULLER BRUSH CO.**

Hartford, Conn.

BOOTH NO. 225-C and 225 D.

EXHIBIT: Brushes for textile machinery and mill maintenance; mops and handles; waxes and polishes; cleaning powder.

In attendance: L. H. Carl, N. L. Parsons, C. G. Rowland, M. K. Young, S. F. Henry, E. W. Mason, R. S. Hockett, R. L. White-law.

**A. F. FYANS**

Westport, Mass.

BOOTH NO. 416.

EXHIBIT: Silver King vulcanized fibre roving cans.

In attendance: A. F. Fyans, F. Labounty, H. Neville, Jr.

**GARRATT-CALLAHAN CO. OF NEW  
YORK**

New York, N. Y.

BOOTH NO. 328-A.

EXHIBIT: Fluff-foe rust eradicator, Magic protective film for boilers, Carbi soot and scale remover, Garcalco liquid fuel oil treatment.

In attendance: B. L. McCaskill, H. M. Gray, W. J. Sciutti, Joseph H. Morris.

**THE GATES RUBBER CO.**

Denver, Colo.

BOOTH NOS. 341-42.

EXHIBIT: Lantern slide sequence display describing Gates specialized research; demonstration of shock absorbing qualities of Gates Vulco-Ropes with use of oscilloscope; animated loom display demonstrating Gates Tex-Hide loom accessories.

In attendance: Henry A. Page, Robert Denslow, Harold Johnson, Alfred Poehlman.

**GILMAN PAINT & VARNISH CO.**

Chattanooga, Tenn.

BOOTH NO. 435.

EXHIBIT: Mill white paints, color streaming, exterior and interior house paints, bobbin enamels, machinery enamel.

In attendance: R. B. Olney, E. L. Gott, J. M. Isom, Murray Roney, W. P. Dobson, W. D. Gilman, III, L. C. Teeters.

**L. H. GILMER CO. (Division of United  
States Rubber Co.)**

Philadelphia, Pa.

BOOTH NOS. 212-13 (with Greenville Textile Supply Co.).

EXHIBIT: Endless and connected-type V-belts; cone, lick-in, gainer, winder, spinner flat belts and belting; special products such as shock pads, loom strapping.

In attendance: E. F. Wood, H. B. Allison, R. Y. Case, W. W. Conard, P. M. Wright.

**THE GIRDLER CORP. (Votator Division)**

Louisville, Ky.

BOOTH NO. 240.

EXHIBIT: Backfill apparatus, duplex piston pump.

In attendance: Lamar Roy, Joe Thurman, Sam Welch, Gaylord Barrick, Gene Wedereit.

**GOWER MFG. CO.**

Greenville, S. C.

BOOTH NO. 458.

EXHIBIT: Not specified.

In attendance: T. Charles Gower.

**GREENVILLE TEXTILE SUPPLY CO.**

Greenville, S. C.

BOOTH NOS. 212-13.

EXHIBIT: Textile spools and bobbins; materials handling equipment; general textile switches and starter controls; lighting equipment; textile belting; power transmission equipment; textile motors.

In attendance: W. T. McLeod, Karl A. Fisher, D. R. Dickson, Charles G. Price, Charles G. Hinkle, T. M. Bailey, W. L. Brigham, H. Z. Graham, C. Q. Mason, W. T. McLeod, Jr., D. C. Neese, G. H. Batchlor, C. L. Jones.

**IRA L. GRIFFIN**

Charlotte, N. C.

BOOTH NOS. 462-B, 463.

EXHIBIT: Hubinger OK corn starches, Waxy sorghum starch (see separate listing); American Key Products, Inc., Idaho potato starch and other products; Atlantic gelatins.

In attendance: Ira L. Griffin, A. M.

Robinson (for Hubinger), H. R. Barnett (for American Key Products).

**GULF OIL CORP.**

Pittsburgh, Pa.

BOOTH NO. 211.

EXHIBIT: Gulfgem for spindle lubrication, 3-F fibre spray oils; lubricants as well as Gulf engineering service for the textile industry will be dramatized by use of models and animated displays.

In attendance: E. G. Williams, A. O. Buntin, O. K. Weatherwax, H. N. Hill, John Houton, A. N. Wright, Roy Burkhalter, William Robinson.

**THE HART PRODUCTS CORP.**

New York, N. Y.

BOOTH NO. 337.

EXHIBIT: Caro-Gant concentrated cotton warp sizing.

In attendance: Charles C. Clark, Ralph Hart, S. H. Hart, Dr. B. G. Zimmerman.

**HAYES INDUSTRIES, INC.**

Jackson, Mich.

BOOTH NO. 350.

EXHIBIT: Aluminum and magnesium section, tricot and loom beams.

In attendance: W. H. Maxson, G. Boyd Vass, Don Bender.

**JAMES E. HAY LEATHER CO.**

Lowell, Mass.

BOOTH NO. 246.

EXHIBIT: See listing for Carolina Belting Co.

**HERCULES POWDER CO.**

Wilmington, Del.

BOOTH NOS. 331-32.

EXHIBIT: Pine oil and other reagents.

In attendance: George Bossert.

**HOLLISTER-MORELAND CO., INC.**

Spartanburg, S. C.

BOOTH NO. 227.

EXHIBIT: Merrow sewing machines; American Safety Table motors and tables; cutting tables and machines; allied accessories.

In attendance: R. B. Moreland, O. S. Bachelor, J. B. Moreland, Lane C. Burris, J. M. Washburn, E. E. Champlin, Julian C. Frankel, Max T. Voigt.

**HUBBARD SPOOL CO.**

Chicago, Ill.

BOOTH NO. 226-A.

EXHIBIT: Loom beams, section beams, cloth rolls, spools, bobbins.

In attendance: R. M. Stout, E. J. Hubbard, Jr., L. A. Hubbard, F. A. Rappleyea.

**THE HUBINGER CO.**

Keokuk, Iowa

BOOTH NOS. 462-B, 463.

EXHIBIT: OK corn starches, waxy sorghum starch.

In attendance: Ira L. Griffin, A. M. Robinson.

*Linking your  
machinery to*

*more*

*production*



New rings in place of worn ones — speed rings in place of conventional styles — these are two GOOD ways to help restore machinery to maximum production. To aid you in doing this, DIAMOND FINISH has the most complete line of ring styles available.

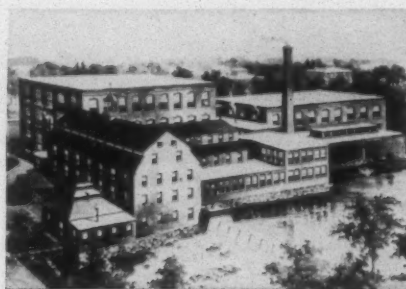
**Southern Textile Show**

**Booth 202**

**WHITINSVILLE (MASS.)**

**SPINNING RING CO.**

*Makers of Spinning and Twister Rings since 1873*



WORLD'S LARGEST RING PLANT



Standard DIAMOND FINISH  
Flange Ring



Eadie Laced Wick  
Oil-lubricated Ring



Common Flange Ring  
for Heavy Twisting



Eadie Multiple-groove  
Greased Ring

HUNTINGTON & GUERRY, INC.  
Greenville, S. C.

BOOTH NO. 217.

EXHIBIT: "Trouble-Proof" electrical installations for textile plants and industry in general.

In attendance: R. I. Huntington, DuPont Guerry, Jr., J. H. Howard, J. R. Rutledge, Neal Campbell.

HUNT MACHINE WORKS, INC.

Greenville, S. C.

BOOTH NOS. 128-30.

EXHIBIT: HE filament rayon and HL-16 cotton looms with spreaders and individual motor drives. (Also offering tours of nearby Hunt plant.)

In attendance: John O. Hunt, William E. Henderson, Emil V. Wilson, B. M. Cooper, Lee Martin, C. M. McClure, Jr., A. M. McNeill, I. R. Jermy, W. R. Fox.

HYSTER CO.

Peoria, Ill.

BOOTH NO. 491 (with L. S. Teague Equipment Co., Jacksonville, Fla.).

EXHIBIT: Model 20 2,000-pound fork lift trucks, one equipped with load grab attachment, the other with standard load arms.

In attendance: Edgar White, Fred Schultz, Clarence H. Collier, Jr.

IDEAL MACHINE SHOPS, INC.

Bessemer City, N. C.

BOOTH NOS. 325-26.

EXHIBIT: First showing of Ideal drawing (on working model frame) equipped with permanently lubricated and sealed ball bearings for elimination of vibration; RCK treated flyers; rayon finished flyers; new RCK pressers; new and rebuilt roving spindles; new and rebuilt Flow Steel treated top rolls; various rebuilding processes on spinning and twister spindles.

In attendance: E. B. Robinson, Joe Whitehurst, A. S. Roebuck, E. F. Robinson.

INDUSTRIAL ENGINEERING CO.

Kershaw, S. C.

BOOTH NOS. 311-12.

EXHIBIT: General Motors Corp. Durex bronze bearings; Nolu impregnated wood self-lubricating bearings; textile parts reconditioned with the two types.

In attendance: C. R. Blakeney, R. H. Blakeney, F. L. Bowers, C. O. Smith.

INDUSTRIAL STEELS, INC.

Cambridge, Mass.

BOOTH NO. 424.

EXHIBIT: Stainless steel items applicable to the textile industry.

In attendance: Robert E. Mason, R. C. Cunningham.

INTERNATIONAL BUSINESS MACHINES CORP.

New York, N. Y.

BOOTH NO. 488.

EXHIBIT: I. B. M. electric punched card accounting machines; time recording, sig-

naling and indicating equipment; electric typewriters.

In attendance: G. W. Dick, T. A. Kirkland, C. E. McKittrick.

JENKINS BROS.

New York, N. Y.

BOOTH NOS. 440-41.

EXHIBIT: Bronze, iron, cast steel and stainless steel valves, including newly developed bronze gate and globe valves.

In attendance: E. C. Barrett, E. L. Dean, W. A. Swellgrave, L. M. Leaptrott, C. C. Chamberlain, A. M. Street.

JOHNS-MANVILLE SALES CORP.

New York, N. Y.

BOOTH NO. 465.

EXHIBIT: Not specified.

In attendance: William P. Gibbons.

THE JOHNSON CORP.

Three Rivers, Mich.

BOOTH NO. 461.

EXHIBIT: Operating demonstrators of rotary pressure joint, Speed Heet (rotary syphon drainage system for cotton slashers), direct operated solenoid valve.

In attendance: R. W. Gotschall, W. T. Harding, Jr., Robert S. Hudgins, John Marshall, Allan T. Shepherd, Allan Shepherd, Jr., T. H. Abbey, Jr., B. H. Leinart.

JOHNSON ENGINEERING & MFG. CO.

Wilkes-Barre, Pa.

BOOTH NO. 216.

EXHIBIT: Yarn handling equipment, including the self-stacking all stainless steel bobbin boards, cone and bobbin handling equipment, rayon skein and cake soaking machine.

In attendance: George McGee, H. B. Ahlberg.

KANOY & SONS MACHINE CO., INC.

Charlotte, N. C.

BOOTH NO. 226-D.

EXHIBIT: Reception booth.

In attendance: D. B. Kanoy, Jr., M. E. Carnes.

KEARNY MFG. CO.

Kearny, N. J.

BOOTH NOS. 480, 484.



Kearny's textile Psychrometer.

EXHIBIT: Hygrolyt yarn conditioning machines and chemicals; Surco treating method; moisture testers.

In attendance: C. F. Dulkan, George Westwater, C. C. Wighington, Dr. Karl Heyman.

THE KEEVER STARCH CO.

Columbus, Ohio.

BOOTH NO. 407.

EXHIBIT: Victor mill starch, displaying all fluidities.

In attendance: Charles C. Switzer, James F. Kurtz, F. M. Wallace, L. J. Castile, E. Hays Reynolds.

KEYSTONE LUBRICATING CO.

Philadelphia, Pa.

BOOTH NO. 403.

EXHIBIT: Specialized lubricants for textile machinery, demonstrations of Keystone lubricants.

In attendance: Vic Berguson, R. J. McGee, R. M. Goss, Albert Hobbie.

WALTER KIDDE & CO., INC.

Belleville, N. J.

BOOTH NO. 242.

EXHIBIT: Kidde Tension and Density Control; Tensometer; Tension Compensator.

In attendance: E. J. Heiser, J. S. Gosnell, David Kroll, C. L. Griffin.

LAMBETH ROPE CORP.

New Bedford, Mass.

BOOTH NO. 222-B.

EXHIBIT: Spinning and twister tapes, canvas lug straps, cotton rope, miscellaneous items.

In attendance: Julian P. O'Leary, Frank Burke.

OLIVER D. LANDIS, INC.

Charlotte, N. C.

BOOTH NO. 460.

EXHIBIT: Keller pneumatic tools; Chat-ham slasher cloth; leather belting; domestic and imported check straps; Kenyon spinning and twister tape.

In attendance: Charles R. Ibach, Oliver D. Landis, Mrs. Oliver D. Landis, Winifred Goff, Frank Miller.

LA SALLE STEEL CO.

Chicago, Ill.

BOOTH NO. 251-B.

EXHIBIT: Stressproof steel.

In attendance: M. H. Bankard, A. F. Golick, E. A. Hoffman, F. D. Barringer.

LESLIE CO.

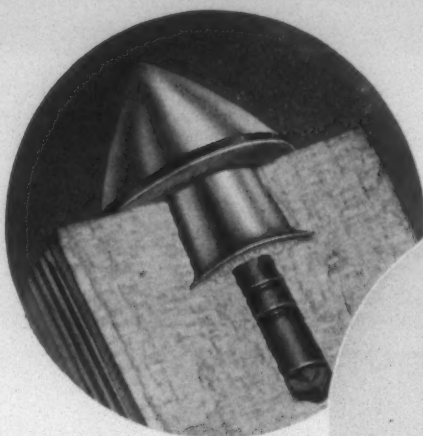
Lyndhurst, N. J.

BOOTH NO. 333.

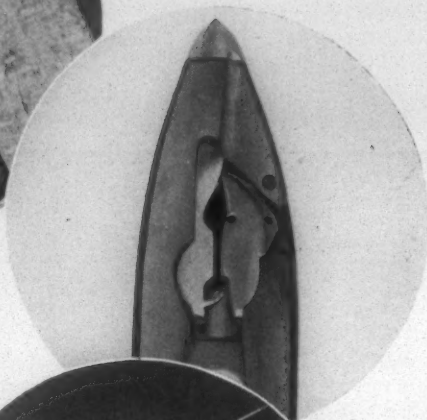
EXHIBIT: Reducing valves, pump governors, temperature regulators, pressure controllers, strainers.

In attendance: J. T. Muller, R. W. Boettiger, Frank A. Thomas, Jr., R. K. Rouse, Welby Rose, S. E. Abernathy, F. W. Scott, William Gauggell.

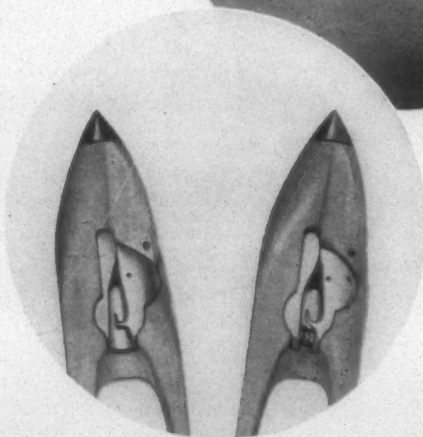
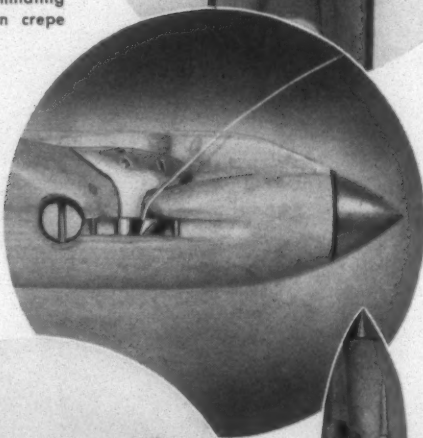
Locking Tip Sleeve which anchors tips forever and insures against loss of production time, idle looms, and costly drawing-ins.



Reverse wind Rayon shuttle (S7X Center Tension Eye) holds thread in perfect alignment and constantly down in place, eliminating reverse wind rayon crepe filling troubles.



C1-41 Eye with inner hook and outside lock accelerates threading and keeps thread constantly in place.



Two-in-One Shuttles. In a matter of seconds, you can remove a regular eye and substitute the leader among all tension eyes.



Low Thread Groove Shuttle which eliminates the serious and common causes of jerk-ins, smutted and rubbed filling.

**See**  
these foremost  
**Shuttle**  
improvements  
at the Southern Textile  
Exposition, Oct. 4-9  
**Booth #127**

The name of Watson-Williams has been synonymous with quality shuttles and with leading shuttle improvements for 118 years. Watson-Williams Shuttles are recognized for fine workmanship. They are the choice of foremost woolen, cotton and silk mills over the nation for dependable operation. Visit Booth 127 at the Southern Textile Exposition, October 4 - 9 at Greenville. Give the Watson-Williams representative who calls on you an opportunity to demonstrate the five improvements shown here. See a few of the eighty odd steps in the precision manufacture of a Watson-Williams Shuttle. Meanwhile place a sample order with us for your next shuttle requirements.

## WATSON-WILLIAMS MFG. CO.

MILLBURY, MASSACHUSETTS

### SOUTHERN REPRESENTATIVES:

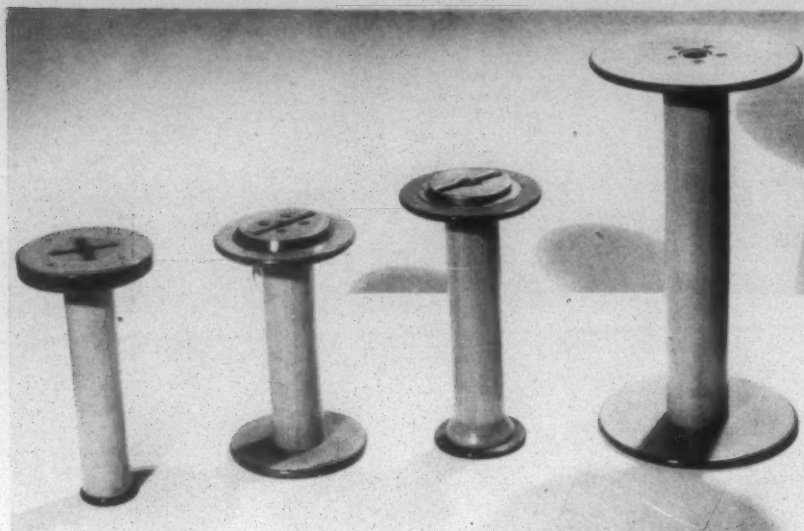
WATSON and DESMOND, Box 1954, Charlotte, N. C.  
JOHN W. LITTLEFIELD, 810 Woodside Bldg., Greenville, S. C.  
WALTER F. DABOLL, Jefferson Bldg., Greensboro, N. C.

### WESTERN REPRESENTATIVE:

ARTHUR J. BAHAN, P. O. Box 245, La Porte, Ind.

### NORTHERN REPRESENTATIVE:

GUY C. BURBANK, 32 Beaconsfield Rd., Worcester 2, Mass.



Lestershire heavy-duty twister bobbins.

**LESTERSHIRE SPOOL & MFG. CO.**  
Johnson City, N. Y.  
BOOTH NOS. 212-13.

EXHIBIT: All types of latest textile mill bobbins, featuring new all-aluminum bobbins.

In attendance: Messrs. Dickson, Bailey, Graham, Brigham.

**LINCOLN ENGINEERING CO.**  
St. Louis, Mo.  
BOOTH NO. 243.

EXHIBIT: Centralized lubrication systems in operation, display of power heavy-duty drum pumps, bucket pumps, hand guns, grease fittings and other airline and lubricating accessories.

In attendance: W. T. Picraux, A. P. Fox, Ben S. Davis, Foster Holmes, Al Woodland, R. J. Gabrielson.

**LINK-BELT CO.**  
Chicago, Ill.  
BOOTH NOS. 219-221.

EXHIBIT: Power transmission equipment, consisting mainly of the electrofluid drive, gearmotor, P. I. V. gear and other items.

In attendance: Members of sales engineering staff.



The Markem Model 12A.

**MACBETH CORP.**  
New York, N. Y.  
BOOTH NO. 145-B.

EXHIBIT: New color matching skylight, Examolite (for examination and inspection), Titration-pH meter, the Model A and industrial pH meters.

In attendance: Norman MacBeth.

**MARCHANT CALCULATING MACHINE CO.**  
Atlanta, Ga.

BOOTH NOS. 338-39.

EXHIBIT: Automatic silent speed calculator, with full automatic multiplication and division.

In attendance: John S. Bradbury, Julian O. Grubbs, R. C. Windsor, A. T. Davis.

**MARKEM MACHINE CO.**  
Keene, N. H.

BOOTH NOS. 232, 233-A.

EXHIBIT: Five models of marking equipment used in the textile industry.

In attendance: Charles H. Cheeseman, C. A. Putnam, David F. Putnam, Harold D. Milton.

**MARSHALL & WILLIAMS SOUTHERN CORP.**  
Greenville, S. C.

BOOTH NOS. 137, 138-A.

EXHIBIT: High-speed tenter frame in operation; assortment of tenter clips, Sanforizer clip expander chain links.

In attendance: Fred H. Land, Richmond Viall, John C. Nash.

**MEADOWS MFG. CO.**  
Atlanta, Ga.

BOOTH NO. 247-B.

EXHIBIT: Short section of a band driven spinning frame converted to tape drive.

In attendance: E. D. Meadows, J. R. Caldwell, R. L. Holloway, James P. Coleman, Walter S. Coleman, Richard B. Rowe.

**MECHANICAL EQUIPMENT CO.**  
Charlotte, N. C.

BOOTH NOS. 134-A, 135.

EXHIBIT: Sims heat exchanger, Clark fluid controls, cut-away model of Aurora pumps.

In attendance: R. S. Hudgins, Jr., W. T. Harding, Jr., John Q. Marshall, E. G. Sims, Len Adler, John Mainwaring, W. P. Webster, Frank S. Main, G. W. Anderson.

**MERROW MACHINE CO.**  
Hartford, Conn.

BOOTH NO. 227.

EXHIBIT: See listing for Hollister-Moreland Co.

**METAL-GLASS PRODUCTS CO.**  
Belding, Mich., and Atlanta, Ga.

BOOTH NOS. 225-A, 225-B.

EXHIBIT: Stainless steel storage tanks, sizing pumps, cookers, slasher cans, slasher boxes.

In attendance: Jack B. Curry, Warren M. Curry, John D. Allen, Norman P. Foley.

**THE MILLER CO.**  
Meriden, Conn.

BOOTH NO. 423.

EXHIBIT: Continuous wireway fluorescent lighting systems.

In attendance: H. Phillips, J. J. Perry, Jr., C. Booker, G. W. Beals.

**MOFFATT BEARINGS CO.**  
Philadelphia, Pa.

BOOTH NO. 237.

EXHIBIT: Anti-friction bearings in a complete range of types and sizes.

In attendance: D. G. Hornbaker, O. S. Livingston, R. W. Vogelsberg, R. L. White, S. D. Zeanah, Albert Q. Davis, Robert A. Ford.

**MONROE CALCULATING MACHINE CO., INC.**  
Orange, N. J.

BOOTH NOS. 334, 335, 336.

EXHIBIT: Adding, calculating and book-keeping machines.

In attendance: B. T. Burry, Hugh Price, E. S. Cabaniss, F. M. Smith, Jr., I. G. Bloxam, J. C. Moody, W. G. Taliaferro, W. J. Beavers.

**THE MONROE CO., INC.**  
Cleveland, Ohio.

BOOTH NO. 349.

EXHIBIT: Floor repair and re-surfacing material, skidproof coating, technical paint, roof protection materials, waterproofing compounds.

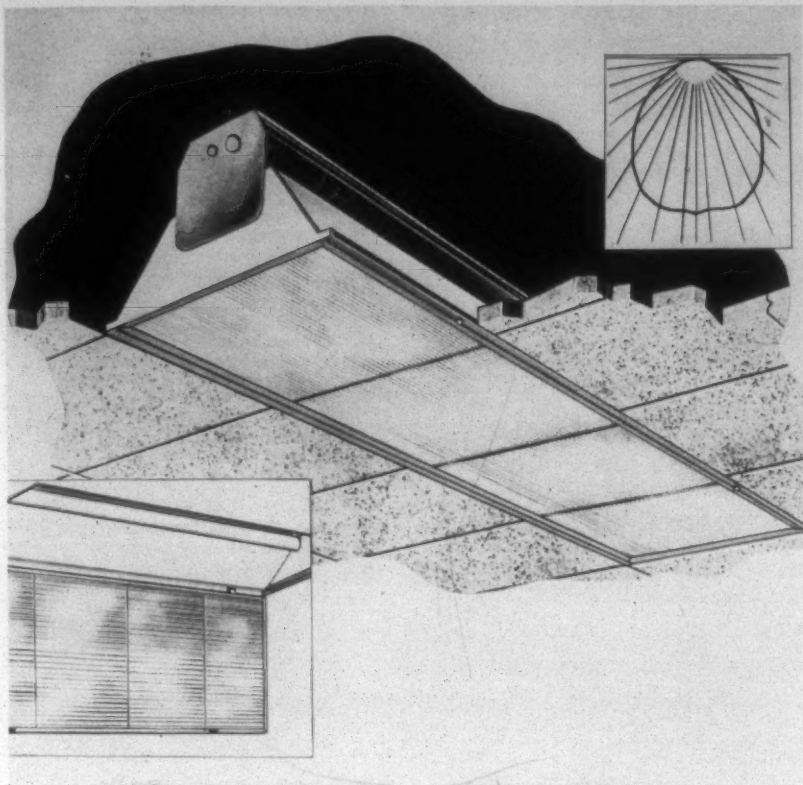
In attendance: C. J. McCormack, Paul H. Dudash.

**MONTGOMERY & CRAWFORD, INC.**  
Spartanburg, S. C.

BOOTH NO. 477.

EXHIBIT: Reception booth.

In attendance: Alec Garner, Joe Crawford, Frank Fielder, Sam Means, Ted Crain, Bus Walker, Sam Shackelford, Charley Dunn.



Miller continuous wireway fluorescent lighting system features.

**MOREHEAD MFG. CO.**  
Detroit, Mich.

BOOTH NO. 353.

EXHIBIT: Tilting type return trap.

In attendance: J. B. Phillips, A. M. Bryan.

**MORSE CHAIN CO.**  
Dertroit, Mich.

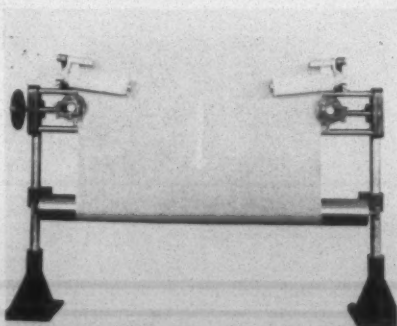
BOOTH NO. 489.

EXHIBIT: Operating displays of silent chain rocker joint, silent and roller chain drives, coupling drive shafts, friction clutches and form-sprag indexing clutches.

In attendance: Ivan A. Horton, F. M. Hawley, R. J. Howison, D. C. McNeely, H. R. Greenley.

**MOUNT HOPE MACHINERY CO.**  
Taunton, Mass.

BOOTH NO. 141.



Mount Hope precision gliders mounted on floor stand.

EXHIBIT: Guiding and feeding equipment

for open-width fabrics, opener equipment, expanders, web straighteners.

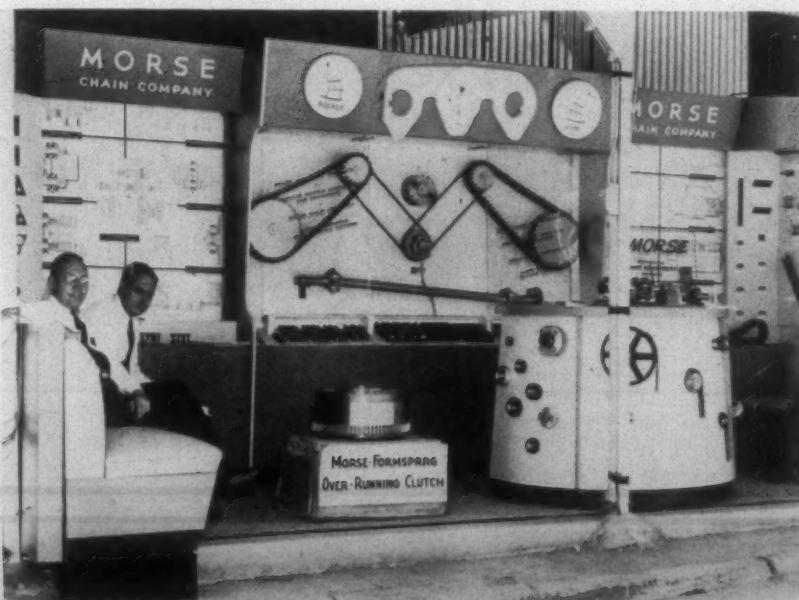
In attendance: J. D. Robertson, J. B. Hammett, E. F. Slaughter, J. Fred Slaughter.

**MYLES SALT CO., INC.**  
Charlotte, N. C., New Orleans, La.

BOOTH NO. 485.

EXHIBIT: A machine to dissolve rock salt and to filter brine.

In attendance: John C. Drake, John M. Culp, Jr., James B. Hunter, Jr., C. J. Naderhny, E. R. Ravenel, M. J. Reach.



The Morse Chain Co. booth as it will appear at Greenville.

**THE NATIONAL CASH REGISTER CO.**  
Dayton, Ohio.  
BOOTH NOS. 354-56.



National Cash Register Co. payroll and distribution machine.

EXHIBIT: Payroll and distribution and factory accounting machines, cash registers and other business machines.

In attendance: C. E. McDade, G. S. Copenhagen.

**THE NATIONAL PLASTIC PRODUCTS CO.**

Odenton, Md.

BOOTH NO. 249.

EXHIBIT: Saran filament, fabrics woven of saran filament, items fabricated using woven saran.

In attendance: E. Winer, F. V. Ulrich, H. D. Dawbarn, H. W. Rydstrom, Jr., D. Magee, C. Worthington, F. Brown, G. J. Treuting, J. Richards.

**NATIONAL PLASTICS, INC.**  
Knoxville, Tenn.

BOOTH NO. 401.

EXHIBIT: Run-Rite plastic textile machinery parts.

In attendance: C. Van Deventer, Ronald R. Spencer, C. R. Overholser.

**NATIONAL RING TRAVELER CO.**

Pawtucket, R. I.

BOOTH NO. 214.

EXHIBIT: Spinning and twister ring travelers.

In attendance: Not specified.

**NATIONAL STARCH PRODUCTS, INC.**

New York, N. Y.

BOOTH NO. 444.

EXHIBIT: Flow chart indicating important steps in the manufacture of National's corn starch products.

In attendance: Frank Greenwall, Chester A. Gage, J. F. Fitzgerald, Lester E. Klempner, Herbert C. Olsen, W. J. Bonner, H. F. Taylor, Jr.

**NEW DEPARTURE DIVISION,  
GENERAL MOTORS CORP.**

Bristol, Conn.

BOOTH NOS. 472-73.

EXHIBIT: Animated ball bearing highlighting the injection relubrication feature, and other bearing types for the textile industry.

In attendance: Alwin A. Gloetzner, William T. Murden, Jones Y. Pharr, Jr., Aubrey E. Bishop, Rodger D. Brouwer.

**NEW YORK & NEW JERSEY  
LUBRICANT CO.**

New York, N. Y.

BOOTH NO. 109.

EXHIBIT: Demonstrations of Non-Fluid oils for textile mill lubrication.

In attendance: Falls L. Thomason, W. C. Taylor, F. W. Phillips, F. D. Jacoway, J. A. Sorrells, Jr., J. M. McNeely, Jr.

**NUTTING TRUCK AND CASTER CO.**

Faribault, Minn.

BOOTH NO. 402.



Nutting standard steel box truck.

EXHIBIT: Wheels, casters, cloth, lap, cotton, box, freight, hand and cafeteria dish trucks.

In attendance: K. F. Heath, Stan Brookshire.

**OAKITE PRODUCTS, INC.**

New York, N. Y.

BOOTH NOS. 329-30.

EXHIBIT: Specialized materials for maintenance of air conditioning and humidifying equipment and for cleaning textile equipment.

In attendance: Not specified.

**ODOM MACHINE MFG. CORP.**

Roswell, Ga.

BOOTH NO. 126-B.

EXHIBIT: Ball-bearing oilless comb boxes.

In attendance: M. W. Odom, R. T. Smith, F. C. Crall, Ollie Hinson, M. W. Crall.

**PABST SALES CO.**

Chicago, Ill.

BOOTH NO. 328.

EXHIBIT: Exsize.

In attendance: C. H. Patrick, G. B. Perlstein.

**J. C. PADDOCK CO.**

Spartanburg, S. C.

BOOTH NOS. 212-13.

EXHIBIT: See listing for Greenville Textile Supply Co.

**PENICK & FORD, LTD., INC.**

Cedar Rapids, Iowa.

BOOTH NOS. 437-38.

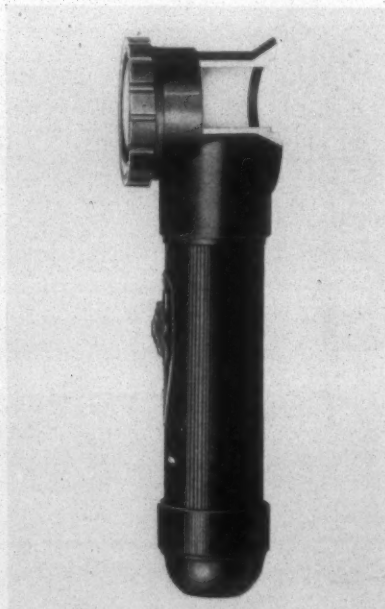
EXHIBIT: Textile starches, dextrines, gums and corn sugars.

In attendance: P. G. Wear, D. P. O'Connor, O. R. Steffens, C. T. Lassiter, T. H. Nelson, Guy L. Morrison, L. C. Harmon, Jr., W. J. Kirby, J. H. Almand, Glenn M. Anderson, Dave Lowry, H. A. Horan.

**E. W. PIKE & CO.**

Elizabeth, N. J.

BOOTH NO. 344.



Pike illuminated magnifier.

EXHIBIT: Magnifying glasses for inspection of textiles, with counting plates and illumination.

In attendance: Mrs. Sally N. Pike, Mrs. Gertrude Boroff.

**PITTSBURGH CORNING CORP.**

Pittsburgh, Pa.

BOOTH NO. 201.

EXHIBIT: PC glass blocks and PC foam-glas insulation.

In attendance: Harry R. Haynes, Arnold I. Holmes.

**PITTSBURGH PLATE GLASS CO.**

Greenville, S. C.

BOOTH NO. 303.

EXHIBIT: Stress functional use of the energy of color in mill and plant by the application of Color Dynamics system of painting; also display of glass items for mill maintenance.

In attendance: Doug Hendricks, H. B. Nutting, F. H. Carter, Clemson Riddle.

**PLASTICBILT CORP.**

Greenville, S. C.

BOOTH NO. 103-A.

EXHIBIT: Plastic reinforced spools, rayon cake holders, pirn and spool draw-off caps, cheese plugs and other textile specialties.

In attendance: R. L. Carroll, J. R. Moss, R. E. L. Holt, Jr., J. Q. Cox.

**PLIBRICO JOINTLESS FIREBRICK CO.**

Chicago, Ill.

BOOTH NO. 448.

EXHIBIT: Jointless firebrick and other refractory products, boiler setting construction and portable incinerator.

In attendance: Frank S. Rieder, Oliver L. Ballard, M. C. Ballard.

**PNEUMAFIL CORP.**

Charlotte, N. C.

BOOTH NO. 404.

EXHIBIT: Literature and photographs will feature products of company.

In attendance: James W. Stuart, C. R. Harris, George E. Archer.

**POE HARDWARE & SUPPLY CO.**

Greenville, S. C.

BOOTH NO. 225.

EXHIBIT: Not specified.

**PRECISION GEAR & MACHINE CO.,  
INC.**

Charlotte, N. C.

BOOTH NO. 486.

EXHIBIT: A demonstration spinning frame equipped with Precision bobbin lifter; also display of Precision compounds, twist and spindle drives, ball bearing lap pins and other items.

In attendance: Harry Frohman, V. A. Hanson, D. A. Chapman, T. B. Spencer, C. M. Moore, C. G. Seabrook.

**PROVIDENT LIFE & ACCIDENT  
INSURANCE CO.**

Chattanooga, Tenn.

BOOTH NOS. 317-19.

EXHIBIT: Information on employees welfare programs.

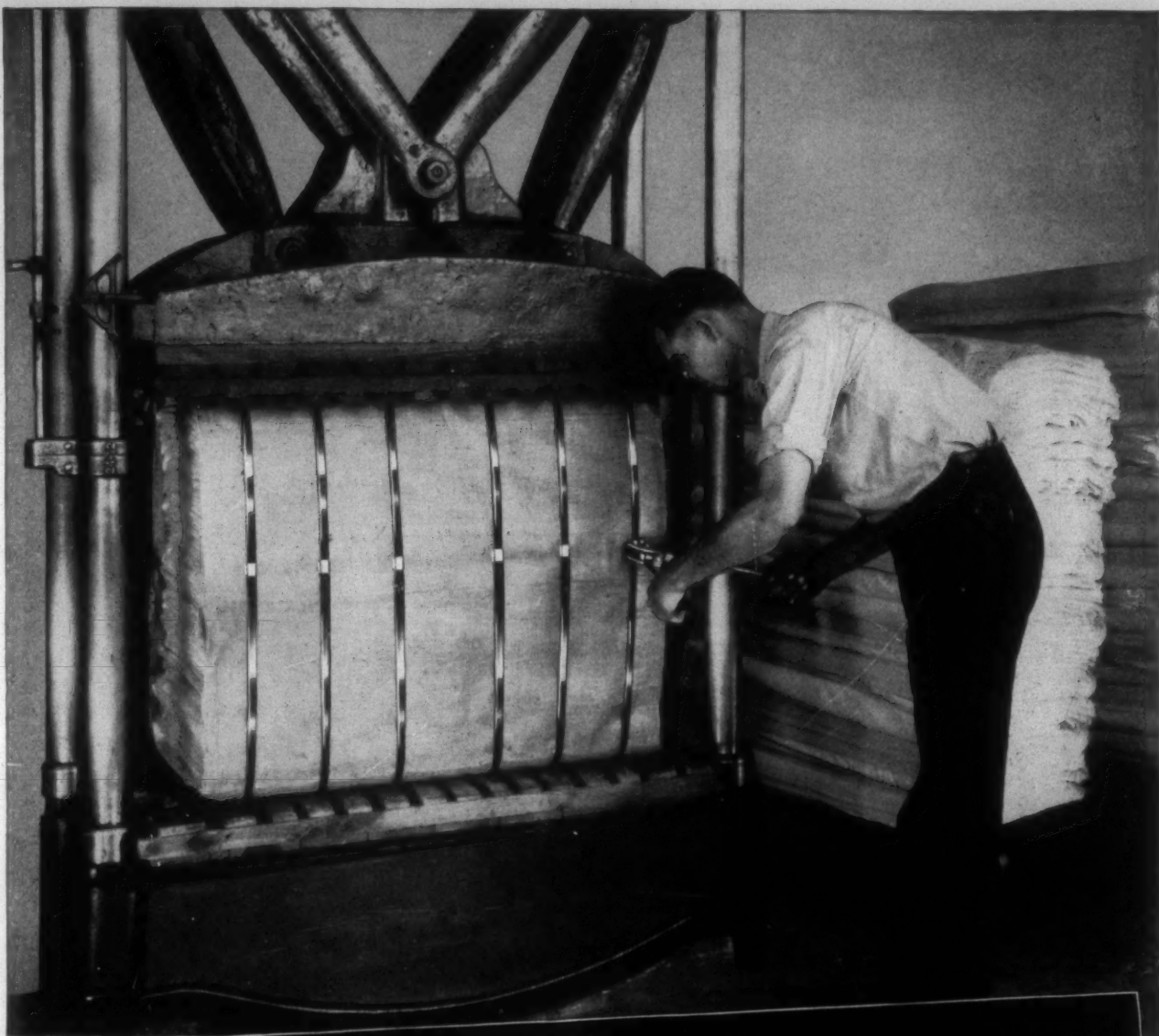
In attendance: C. W. Morrison, A. Gordon, C. DuPree.

**PUNCH-LOK CO.**

Chicago, Ill.

BOOTH NO. 246.

EXHIBIT: See listing for Carolina Belting Co.



"BOUND TO GET THERE"

*Boxed. Bundled or Baled!*

... WITH *Acme Steelstrap*



Doc. Steelstrap<sup>®</sup>

No matter how your textile product goes, it will move more secure against everyday shipping hazards when banded with Acme Steelstrap.

You save, too, on warehousing space, shipping weight, dunnage, freight claims . . . and profits rise proportionately.

So, whether your textile shipments are single units, carloads of freight, or ships' cargoes . . . use Acme Steelstrap for boxing, bundling, or baling. It means the most efficient shipping pack.

NEW YORK 17

ATLANTA

CHICAGO 8

LOS ANGELES 11

*Acme Steelstrap*

ACME STEEL CO.  
CHICAGO

PURE OIL CORP.

Charlotte, N. C.

BOOTH NO. 248-A.

EXHIBIT: Oils and lubricants.

In attendance: J. B. Baldin, F. G. Sholes, R. G. Whitted.

PURITAN CHEMICAL CO.

Atlanta, Ga.

BOOTH NO. 414.

EXHIBIT: New Auto-Scrubber; floor seals and floor maintenance materials; disinfectants and cleaning supplies.

In attendance: Ed P. Collins, A. L. Feldman, T. V. Fisher, Roy Martin, F. E. Baldwin, Ross Goddard, W. A. Williams, F. W. McComb, Jr.

RAGAN RING CO.

Atlanta, Ga.

BOOTH NO. 101.

EXHIBIT: Spinning rings.

In attendance: Ralph Ragan, J. H. Foard.

RUSSELL RANSON

Charlotte, N. C.

BOOTH NO. 482.

EXHIBIT: See listing for Weston Electrical Instrument Co.

RAYON AND SYNTHETIC TEXTILES

New York, N. Y.

BOOTH NO. 313.

EXHIBIT: Trade periodical.

REEVES PULLEY CO.

Columbus, Ind.

BOOTH NO. 247-C.

EXHIBIT: Variable speed transmission, vari-speed motor pulley, vari-speed motor-drive and the new slasher main drive.

In attendance: C. L. Irwin, J. W. Vaughan, P. C. Talbot, Jack Reeder, W. J. Reeves, F. M. Higgins, J. Sutherland, M. R. Snyder, Jim Burrows, J. B. Thomas, D. W. Clem.

REYNOLDS METALS CO.

Louisville, Ky.

BOOTH NOS. 233-34.

EXHIBIT: Recent aluminum developments for use on modern textile machinery.

In attendance: H. V. Menking, G. L. Root, R. B. Clapper, David F. Beard, Ray Christensen, C. L. Thompson, Fred L. Boynton, G. B. Bailey, H. E. Jennings.

J. E. RHOADS & SONS

Philadelphia, Pa.

BOOTH NOS. 131-32.

EXHIBIT: New double reduction loom drive utilizing individual motor with flat belt pulleys; Tannate flat, Griptan flat, Gilt Edge flat textile straps and accessories; Tannate preserver; Tannate-Rockwood spinning frame drive arranged so load can be applied to stall the motor.

In attendance: Samuel L. Allen, J. Edgar Rhoads, R. H. Rhoads, C. R. Mitchell, C. H. Tildes, A. S. Hoffman, J. W. Mitchell, L. H. Schwoebel.

THE RIDGE TOOL CO.

Elyria, Ohio.

BOOTH NOS. 470-71.

EXHIBIT: Line of pipe tools.

In attendance: W. L. Parcell, R. D. Fye, M. Fried.

B. S. ROY & SON CO.

Worcester, Mass.

BOOTH NO. 207.

EXHIBIT: Bare cylinder grinders, cotton traverse grinders, fast silent differential, slow silent differential.

In attendance: Belton L. Quick, Herman C. Schwager, Jr.

ROR PROCESS, INC.

Greensboro, N. C.

BOOTH NO. 248-A.

EXHIBIT: See listing for Cutler Textiles, Inc.

In attendance: Roger W. Cutler.

THE RUSSELL MFG. CO.

Middletown, Conn.

BOOTH NO. 268.

EXHIBIT: Rusco harness strapping, transmission and conveyor belting; textile machine belts.

In attendance: Earl Sargent, P. F. Madson, Bruce Williams, John Williams.

SARCO CO., INC.

New York, N. Y.

BOOTH NOS. 427-28.

EXHIBIT: Steam traps, strainers, temperature regulators, mixing valves, building heating specialties; new draing system for slashers, dry cans and similar rotating cylinders; new method of temperature control for dye jigs and similar dyeing and finishing equipment.

In attendance: Albert Milnes, R. H. Johnson, E. Green, M. J. Marion.

THE SELIG CO.

Atlanta, Ga.

BOOTH NOS. 308-10.

EXHIBIT: Floor and sanitary maintenance materials and equipment.

In attendance: Simon S. Selig, Jr., William F. Bode, Charles Pearl, Lee L. Strasburger, Samson Weiss, Alvin Schwab.

SEYDEL-WOOLLEY & CO.

Atlanta, Ga.

BOOTH NOS. 230-31.

EXHIBIT: Niagara twist-setter yarn conditioning machine; Seyco penetrant and shuttle dressing.

In attendance: A. W. LaGrone, Vasser Woolley, Paul V. Seydel, John R. Seydel, E. A. Scott, W. L. Whisnant.

SHOOK BRONZE CORP.

Lima, Ohio.

BOOTH NO. 251-D.

EXHIBIT: Representative samples of bronze bearings, bushings, bar stock, bearing alloys, production parts and maintenance samples.

In attendance: Alan Dale, John Gafney, George Zapp.

THE SIMS CO.

Eric, Pa.

BOOTH NOS. 134-A, 135.

EXHIBIT: Heat exchangers and water heaters for textile use.

In attendance: E. G. Sims, William T. Harding, Jr.

SINCLAIR REFINING CO.

Atlanta, Ga.

BOOTH NO. 103.

EXHIBIT: New line of spindle lubricants; other petroleum products.

In attendance: P. W. Godard, F. W. Schwettmann, G. R. Dyer, W. P. Camp, J. O. Holt, L. M. Kay, W. H. Lipscomb, R. O. Miller, C. C. Nix, R. L. Parrish, R. A. Smith, E. D. Watson.

J. E. SIRRINE CO.

Greenville, S. C.

BOOTH NO. 203.

EXHIBIT: Reception booth.

In attendance: A. D. Asbury and other members of textile engineering department.

SKF INDUSTRIES, INC.

Philadelphia, Pa.

BOOTH NOS. 409-11.

EXHIBIT: New aluminum tape tension pulley; line of anti-friction bearing pillow blocks; spindle bolsters.

In attendance: R. R. Zisette, R. H. DeMott, R. C. Byler, A. S. Murray, B. K. Lathbury, D. W. McAllen, H. A. Fonda, M. H. Courtney, R. W. Franklin, C. N. Benson, B. F. Davis, G. E. Allen, G. M. Bouillion, V. W. Cook.

SMITH BROS.

Gastonia, N. C.

BOOTH NO. 226-C.

EXHIBIT: All types of new textile machinery parts.

In attendance: Guy L. Smith, L. P. Smith, Fred H. Smith.

SMITH, DRUM & CO.

Philadelphia, Pa.

BOOTH NOS. 113-121.

EXHIBIT: Dyeing machinery for yarn in skein form; dyeing, extracting and drying equipment for yarn in beam and package form.

In attendance: H. S. Drum, W. C. Dodson, J. Ballentine, P. M. Parrott.

SONOCO PRODUCTS CO.

Hartsville, S. C.

BOOTH NO. 238.

EXHIBIT: Complete line of paper carriers, including cones, tubes, spools, bobbins; cork and synthetic rubber cots; specialty items for textile industry.

In attendance: W. B. Broadbent, C. H. Campbell, W. A. Biggs, John Cox, P. F. Williams, W. M. Carpenter and other members of sales and executive staff.

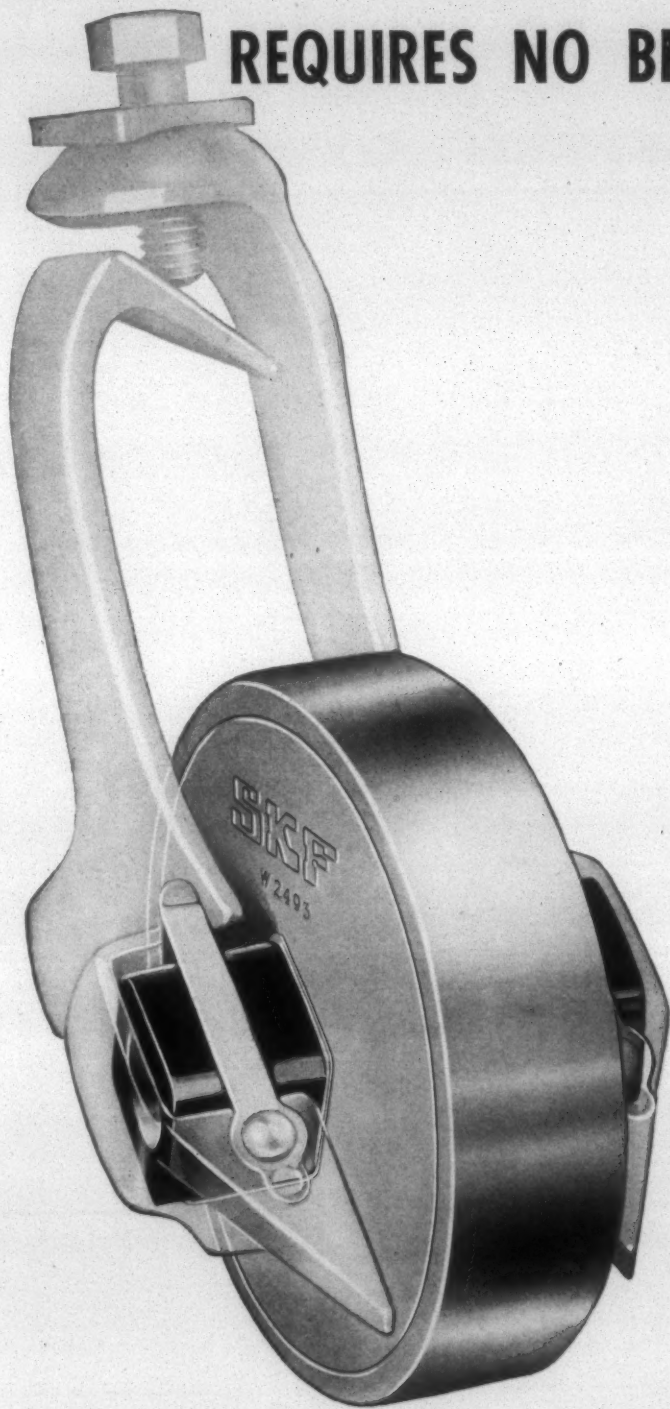
SOUTHEASTERN FIRE EXTINGUISHER SALES, INC.

Atlanta, Ga.

BOOTH NO. 316-B.

EXHIBIT: Not specified.

# The Ball Bearing Tension Pulley that REQUIRES NO BRACKET REPLACEMENT



It fits the old bracket. No new brackets needed. No bracket alteration required. Merely lift out the old pulley and drop in the new one.



Its only exposed rotating part is the rim of the strong, light, aluminum pulley. Pre-lubricated at the factory, it requires no further attention for at least 25,000 service hours.



It's mounted on a large capacity **SKF** Red Seal Bearing which, in turn, is secured to a stationary shaft.



See it in Booths 409-410-411 at the show. Ask for Pamphlet No. 288 either at the show or by writing direct. Consult your nearest Authorized **SKF** Distributor.

6502

**SKF** INDUSTRIES, INC., PHILA. 32, PA.

● **SKF** originated the anti-friction tension pulley — was first to provide a ball bearing tension pulley for existing old-style brackets. Today, more **SKF** Anti-Friction Tension Pulleys are in use than all other ball or roller bearing tension pulleys.

**SKF**  
BALL BEARING  
*Tension Pulley*

**SOUTHEASTERN SOUND & ELECTRONICS CORP.**

Greenville, S. C.

BOOTH NO. 348.

EXHIBIT: SoundScriber office dictation system; Webster Teletalk intercommunications system; Seeburg Select-O-Matic 200 library for industrial music; Kellogg Select-O-Phone private dial telephone system.

In attendance: James C. Dign, Frank Cope, Miss Carol Hooper.

**SOUTHERN SIZING CO.**

Atlanta, Ga.

BOOTH NO. 225-E.

EXHIBIT: Warp lubricator, for attaching to slashers, for separate application of new liquid-type warp lubricant, SLIX; sizing compounds, cotton softeners, sulfonated oils and tallows, anti-foams for sizing.

In attendance: Arthur G. Lehne, J. D. Walker, Hill M. Hunter, Jr., Robert V. May, C. Russell Gill, Bolling G. Brawley.

**SOUTHERN STATES EQUIPMENT CORP.**

Hampton, Ga.

BOOTH NO. 241.

EXHIBIT: Miscellaneous textile replacement and regain parts; ball bearing comb box cloth inspection table; ball bearing blocks.

In attendance: C. W. Walter, Fred J. Allen, W. A. Knapp, John Walters, Roy Schrimshire, C. W. Kennington.

**SOUTHERN TEXTILE NEWS**

Charlotte, N. C.

BOOTH NO. 304.

EXHIBIT: Weekly trade newspaper.

**SQUARE D CO.**

Detroit, Mich., and Milwaukee, Wis.

BOOTH NO. 459.

EXHIBIT: Electric power and lighting distribution equipment; electric motor control equipment.

In attendance: S. T. Walz, F. H. Roby, S. W. Hartness, J. D. Rambo, E. Love.

**A. E. STALEY MFG. CO.**

Decatur, Ill., and Atlanta, Ga.

BOOTH NO. 415.

EXHIBIT: Samples of textile starches and special products for sizing of cotton and synthetic yarns.

In attendance: W. H. Randolph, Jr., Paul D. Doolen, Ivan F. Wieland, Allen Fuller, Walter P. Hope, L. A. Dillon, W. N. Dulaney, W. T. O'Steen, George A. Dean, H. A. Mitchell.

**J. T. STALLINGS**

Gastonia, N. C.

BOOTH NO. 321.

EXHIBIT: Not specified.

**STANDARD PRESSED STEEL CO.**

Jenkintown, Pa.

BOOTH NO. 357.

EXHIBIT: Unbrako square head and socket head knurled point set screws; Flexloc self-

locking nuts; loom spindles; Hallowell trucks.

In attendance: John J. Wiest, J. W. Friel, C. W. Hollingsworth, Jack Mahon, W. Allen.

**STEEL HEDDLE MFG. CO.**

Philadelphia, Pa., and Greenville, S. C.

BOOTH NO. 136.

EXHIBIT: Flat steel heddles, harness frames, drop wires, reeds, warp preparation equipment; Southern Shuttles Division dogwood and persimmon shuttles.

In attendance: J. J. Kaufman, Jr., J. J. Kaufman, R. J. Freitag, V. C. Hassold, F. H. Kaufman, S. Zimmerman, D. L. Batson, C. W. Cain, H. P. Goodwin, D. W. G. Macintyre, J. H. Armstrong.

**STEIN, HALL & CO., INC.**

Charlotte, N. C., and New York, N. Y.

BOOTH NOS. 468-69.

EXHIBIT: Starches, dextrans, gums; bur-lap tubing and burlap for bale wrapping.

In attendance: W. N. Kline, Jr., W. S. Gilbert, S. S. Hockridge, E. D. Estes, J. E. Hensley, F. W. Perry.

**STEWART-WARNER CORP.**

(Alemite Division)

Chicago, Ill.

BOOTH NO. 405.

EXHIBIT: Lubrication fittings, hand guns, power and centralized lubrication equipment, lubricants.

In attendance: T. M. Murphy, E. Ralph Harris, Charles Wiley, Robert Fritz.

**STOP-FIRE, INC.**

Charlotte, N. C., and Brooklyn, N. Y.

BOOTH NO. 126-A.

EXHIBIT: Stored-pressure fire extinguishers.

In attendance: L. B. McWilliams, Dale Becon, Paul Nurkiewicz.

**SYLVANIA ELECTRIC, INC.**

New York, N. Y.

BOOTH NO. 490.

EXHIBIT: Fluorescent and incandescent lamps; fluorescent fixtures.

In attendance: Ray Southworth, Hugh Saussy, Dallas Rand.

**W. O. & M. W. TALCOTT, INC.**

Providence, R. I.

BOOTH NO. 406.

EXHIBIT: Fasteners for transmission belts.

In attendance: M. W. Talcott.

**TAYLOR-COLQUITT CO.**

Spartanburg, S. C.

BOOTH NO. 210.

EXHIBIT: Creosoted and salt treated material.

In attendance: Wilkins Cagle, M. P. Brown, Thomas A. Moore, F. N. Sanders.

**TAYLOR INSTRUMENT CO.**

Rochester, N. Y.

BOOTH NOS. 432-34.

EXHIBIT: Slasher control panel for, both

dyeing preparation and yarn drying; panel for co-ordinated control of package and beam dyeing; general industrial thermometers and electric level control valves.

**L. S. TEAGUE EQUIPMENT CO.**

Jacksonville, Fla.

BOOTH NO. 491.

EXHIBIT: See listing for Hyster Co.

**G. H. TENNANT CO.**

Minneapolis, Minn.

BOOTH NOS. 125-26.

EXHIBIT: Mechanized program for textile mill floor maintenance, featuring electric revolving drum type floor machines with various accessories, floor edgers, floor magnets; floor waxes, seals, polishes.

In attendance: Orville C. Hognander, Robert F. Guthrie, Walter Boyer, George D. Billings, John F. Thorsen, Frank D. Lilly, Fremont B. Gruss, Raymond B. Volkman, H. E. Lavett.

**THE TEXAS CO.**

Atlanta, Ga.

BOOTH NOS. 43-31.

EXHIBIT: Lubricating oils and greases for the textile industry.

In attendance: D. C. Rand, J. H. Moran, J. S. Leonard, L. C. Mitchum, S. F. Walker, F. G. Mitchell, J. W. Motley, Jr., A. C. Evans, J. E. Sammons.

**TEXTILE AGE, INC.**

New York, N. Y.

BOOTH NO. 490-A.

EXHIBIT: Reception booth.

In attendance: A. P. Gumaer, D. H. White, C. S. Van Pelt, F. A. Westbrook.

**TEXTILE BULLETIN** (Clark Publishing Co.)  
Charlotte, N. C.

BOOTH NO. 204.

EXHIBIT: Trade journal, trade directories, technical books.

In attendance: Junius M. Smith, David Clark, F. Roy Carey, James T. McAden, Jr., R. J. Shinn, Ben C. Thomas.

**TEXTILE INDUSTRIES**

Atlanta, Ga.

BOOTH NO. 408.

EXHIBIT: Publication.

In attendance: Maynard L. Durham, W. J. Rooke, R. P. Smith, John Fonville, S. Frank Guest, Milton C. May, L. J. Williams, E. N. Carby, W. Cliff Rutland, L. E. Allen, W. A. McGee, W. K. Hoffman, J. B. Parsons, A. C. Shaw, A. E. C. Smith, John A. Culver, Mrs. John A. Culver.

**TEXTILE WORLD**

New York, N. Y.

BOOTH NOS. 223-24.

EXHIBIT: Publication.

In attendance: William Buxman, E. D. Fowle, C. W. Bendigo, William A. Newell, P. M. Thomas, C. Mallard Bowden, Earle Mauldin, A. W. Fisher, H. C. Harvey, R. L. Chisholm, M. C. MacKenzie, John G. Sabella, J. C. White, Jr., William G. Ashmore.

# *Serving* the entire Textile Industry

*New* TEXTILES,

*New* TECHNIQUES,

...*New* TESTS



**S**INCE ITS FOUNDING in 1880, the United States Testing Company, Inc. has served the entire textile industry.

Whenever technological gains have been made, we have expanded our testing facilities to furnish facts regarding the worth and serviceability of the new achievements.

In the past we pioneered the development of the Gas Fading Chamber for Acetates, the Warmth Tester, the Coolness Tester; helped bring the Flammability Tester to perfection; and engineered new testing equipment to solve textile problems as they arise.

Today this progressive program goes steadily forward. And we will welcome an opportunity to demonstrate our new equipment in operation at our Hoboken Laboratories. Manufacturers and Processors are cordially invited, not only to visit us, but to bring or submit samples of new materials which have been perfected or are in the process of development.

#### The Following Literature Available on Request:

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• <i>Testing in Modern Industry</i></li><li>• <i>Wool Grade Cards</i></li><li>• <i>Testing Price List</i></li></ul> | <ul style="list-style-type: none"><li>• <i>Core Testing for Determination of Wool Yield and Shrinkage</i></li><li>• <i>Standard Textile Regains</i></li><li>• <i>Your Guide to Wise Buying</i></li></ul> |
|---|--|



## UNITED STATES TESTING COMPANY, INC.

HOBOKEN



NEW JERSEY

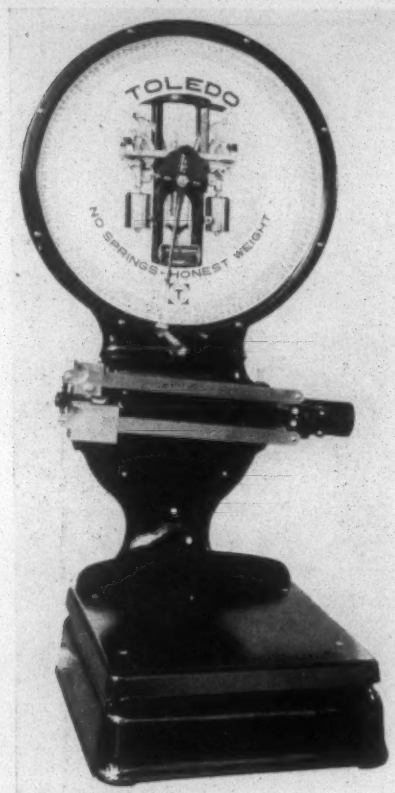
PHILADELPHIA, PA. • BOSTON, MASS. • WOONSOCKET, R. I. • CHICAGO, ILL. • NEW YORK, N. Y. • LOS ANGELES, CAL.

TIDE WATER ASSOCIATED OIL CO.  
New York, N. Y.  
BOOTH NO. 145-A.

EXHIBIT: Lubricants of all types for textile machinery.

In attendance: H. G. Mullen, W. B. Joachim, K. M. Slocum, A. R. Senftleben.

TOLEDO SCALE CO.  
Toledo, Ohio.  
BOOTH NO. 449.



Toledo Model 31-0851 bench-type scale.

EXHIBIT: Portable bench, floor, cotton lap and weight printing scales.

In attendance: W. M. Randolph, W. F. MacKinnon, R. L. Schick.

TOLHURST CENTRIFUGALS DIVISION  
(American Machine & Metals, Inc.)  
East Moline, Ill.  
BOOTH NO. 144.

EXHIBIT: Tolhurst Suprex and Minute Man extractors.

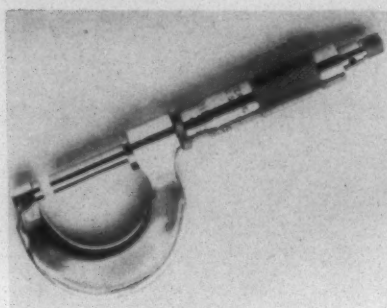
In attendance: R. M. Hammes, P. S. Mumford, F. C. Weicker, J. R. Angel.

TRABON ENGINEERING CORP.  
Cleveland, Ohio.  
BOOTH NO. 476.

EXHIBIT: Centralized lubricating systems, mechanically operated, manually operated, electric motor driven; oil and grease hose, copper tubing, tube fittings, swivel connections.

In attendance: F. D. Johnson, Wilbur Deutsch, Eugene Bartko, David Tobin, D. A. Smith, J. W. Eshelman, C. M. Ellis, G. S. Myers.

TUBULAR MICROMETER CO.  
St. James, Minn.  
BOOTH NO. 215.



Tubular micrometer.

EXHIBIT: Tubular micrometers, calipers, gages, rules, dial indicator gages.

In attendance: R. L. Johnson, H. M. James, F. D. Barringer.

USTER CORP.  
Charlotte, N. C.  
BOOTH NO. 404.

EXHIBIT: Little Uster warp tying machine; combination Turicum reaching-in and denting machine; yarn and sliver evenness tester; thread tension gauge; Moos yarn clearer.

In attendance: George E. Archer, C. R. Harris, August Schuler.

U. S. GUTTA PERCHA PAINT CO.  
Providence, R. I.  
BOOTH NO. 222.

EXHIBIT: Barreled Sunlight paint products, white and colors, for exteriors and interiors; colored finishes for architectural decoration, dado and floor painting, machinery and equipment maintenance, piping identification; promotion of plant safety through Color Coding of plant hazards and protective equipment.

In attendance: Howard F. Eastwood, C. L. Park, William M. Moore, L. K. Palmer, T. C. Roggenkamp, P. R. Singletary.

U. S. RING TRAVELER CO.  
Providence, R. I.  
BOOTH NO. 452.

EXHIBIT: Travelers of all types.

In attendance: W. P. Vaughn, W. H. Rose, H. R. Fisher, O. B. Land, Sr.

VEEDER-ROOT, INC.  
Hartford, Conn.  
BOOTH NO. 107.

EXHIBIT: Pick, hank, yardage, revolution and measuring counters; electrically, manually and mechanically operated counters.

In attendance: George L. Logan, G. H. Anthony, H. V. Barker, R. C. Conant, A. E. Kallinich, H. L. Spaunburg, F. J. Swords.

VENANGO ENGINEERING CO.  
Philadelphia, Pa.  
BOOTH NO. 133.

EXHIBIT: Textile dyeing equipment.

In attendance: C. Harry McCandless, Edwin F. Slaughter, J. Fred Slaughter.

VICTOR RING TRAVELER CO.  
Providence, R. I.  
BOOTH NO. 251-A.

EXHIBIT: Reception booth.

In attendance: E. R. Jerome, W. L. Hudson, J. K. Davis, C. W. Wilbanks, W. T. Horton, F. P. Bodenheimer.

WALKER MFG. CO., INC.  
Philadelphia, Pa.  
BOOTH NOS. 212-13.

EXHIBIT: Flat heddles, heddle frames, reeds.

In attendance: Frank W. Hollingsworth, R. T. O'Steen, A. A. Brame, John W. Hollingsworth.

WARWICK CHEMICAL CO.  
(Division of Sun Chemical Corp.)  
Long Island City, N. Y.  
BOOTH NOS. 346-47.

EXHIBIT: Norane durable water repellent, Impregnole renewable water repellent.

In attendance: Walter E. Murray, Henry Papini, M. M. McCann, William Searcy, I. S. Hurd.

WATSON & DESMOND  
Charlotte, N. C.  
BOOTH NO. 127.

EXHIBIT: Watson-Williams shuttles; Walton humidifiers; climax ball-bearing top rolls; Grob heddle frames and heddles; bobbins and spools; Red Tip feeler motions and temple rolls; National Plastic tape tension idlers and sheaves; D. P. Brown leather products.

In attendance: C. E. Watson, S. P. V. Desmond, John W. Littlefield, Walter F. Daboll, Richard V. McPhail, J. R. Lewis, Richard K. Butler.

WATSON-WILLIAMS MFG. CO.  
Millbury, Mass.  
BOOTH NO. 127.

EXHIBIT: Shuttles and shuttle parts.

In attendance: Hubert J. Watson, Wilbur Watson, Donald R. Scott, Charles A. Dodge, Harold E. Goff, C. E. Watson, S. P. V. Desmond, R. V. McPhail, Walter F. Daboll, John W. Littlefield.

WAUKESHA FOUNDRY CO.  
Waukesha, Wis.  
BOOTH NO. 235.

EXHIBIT: Industrial pumps, non-ferrous metal castings.

In attendance: Charles E. Schick, Emil M. Howe, William J. Moore.

WESTINGHOUSE ELECTRIC CORP.  
Pittsburgh, Pa.  
BOOTH NOS. 417-19, 450-51.

EXHIBIT: Lint-Free textile motor; loom motor; Multi-Motor slasher drive; textile type gearmotor, modern control center, industrial lighting equipment, combination line starter, loom motor starter, Type AB De-ion circuit breakers, electronic warper drive; Precipitron electrostatic air cleaner unit, small Precipitron demonstrator, slasher fan, Axiflo fan, 100 h. p. compressor.

In attendance: Representatives from headquarters and Southern offices.



*By Jove!! I'll Call THE TEXTILE SHOPS!!* They can Eliminate the Dust and Lint from our Spoolers, Nappers and Warpers with their—

## **DUST COLLECTING SYSTEMS**

also give us better Warps, more production and eliminate all guess work as to tension and moisture content in the yarn by converting our present Slashers to *Modern High Speed Automatic Controlled Slashers!*

They can also

Recover our Slasher Cylinders and Dry Cans—Make us some stainless steel Size Kettles and Rolls, and Repair our Card Screens, Condensers and Spinning cylinders.

*Gee! I'm Glad I Thought Of Calling:*

# **THE TEXTILE SHOPS**

**DESIGNERS — ENGINEERS — MANUFACTURERS**

PHONE 1442 — SPARTANBURG, S. C. — PHONE 1443

**WESTON ELECTRICAL INSTRUMENT CORP.**

Newark, N. J.  
BOOTH NO. 482.

EXHIBIT: Per cent stretch indicator, temperature indicator, thermometers, servicing equipment, special ammeter for measuring input to loom motor during operation.

In attendance: R. T. Pierce, A. H. Lamb.

**WHEELER REFLECTOR CO.**  
Boston, Mass.

BOOTH NOS. 212-13.

EXHIBIT: Fluorescent fixtures — 8000 Line, Textilume, Slimline, commercial, 2-100-watt; Series 11 dust-tight fixtures.

In attendance: L. W. Ferguson, Marshall L. Whitman, Gerald H. Preacher.

**WHITING ENGINEERING & MFG. CO.**  
Hartsville, S. C.

BOOTH NO. 417-B.

EXHIBIT: Metal roving trucks, stainless steel tubs, waste truck dumping mechanism, lap, cloth and battery filler trucks.

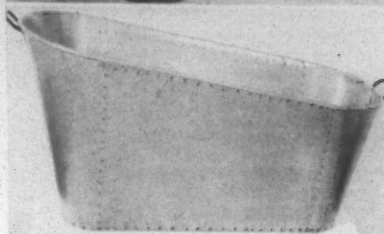
In attendance: W. S. Whiting, K. P. Daniels.

**WHITINSVILLE SPINNING RING CO.**  
Whitinsville, Mass.

BOOTH NO. 202.

EXHIBIT: Spinning and twisting rings and accessories, with emphasis on firm's 75th anniversary.

In attendance: William K. Shirley, William P. Dotemple, George T. Brown.



Whiting metal roving truck (top), and stainless steel tub (below).

**WINSOR & JERAULD MFG. CO., INC.**  
Providence, R. I.

BOOTH NO. 316-B.

EXHIBIT: Not specified.

**WORTHINGTON PUMP & MACHINERY CORP.**  
Harrison, N. J.

BOOTH NO. 143.

EXHIBIT: Air conditioning unit, centrifugal refrigeration compressor, air compressor, centrifugal pumps, variable speed drive, V-belt drive.

In attendance: W. J. Van Vleck, R. L. Cash, E. Michel, P. Shaw.

**WRENN BROTHERS**  
Charlotte, N. C.

BOOTH NO. 475.

EXHIBIT: Industrial casters, materials handling trucks, fibre and metal boxes, Swartzbaugh drink truck.

In attendance: J. Preston Wrenn, Ernest Ahlquist, Paul Wrenn.

**THE YALE & TOWNE MFG. CO.**  
Philadelphia, Pa.

BOOTH NO. 131-A.

EXHIBIT: KM30 High Lift tilting fork truck, Worksaver High Lift telescopic fork truck; Easy Lift model hand truck; portable platform scales, hanging lap pan dial mechanism; Cable King, Load King, Midget King electric hoists; spur geared and Pul-Lift hand hoists.

In attendance: J. S. McCullough, W. J. McGreevy, George Sherrill, S. P. Boyd, R. E. Mason, R. S. Kerr, A. F. Schenck.

**YORK CORP.**  
York, Pa.

BOOTH NO. 109-A.

EXHIBIT: Water chilling refrigeration equipment for mill air conditioning; Flake machine for restaurants and cafeterias; automatic ice cube maker for eating places.

In attendance: J. R. Hertzler, F. C. Wood, M. M. Crout, R. C. Barnes, R. A. Chandler, M. P. Echols, E. C. Harper, O. W. Hogan, Jr., Walter May, J. C. Malone, D. P. Schiwetz, Ned C. Scott, R. A. Warnock, Leon E. Kinley.

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COLUMBUS, GEORGIA

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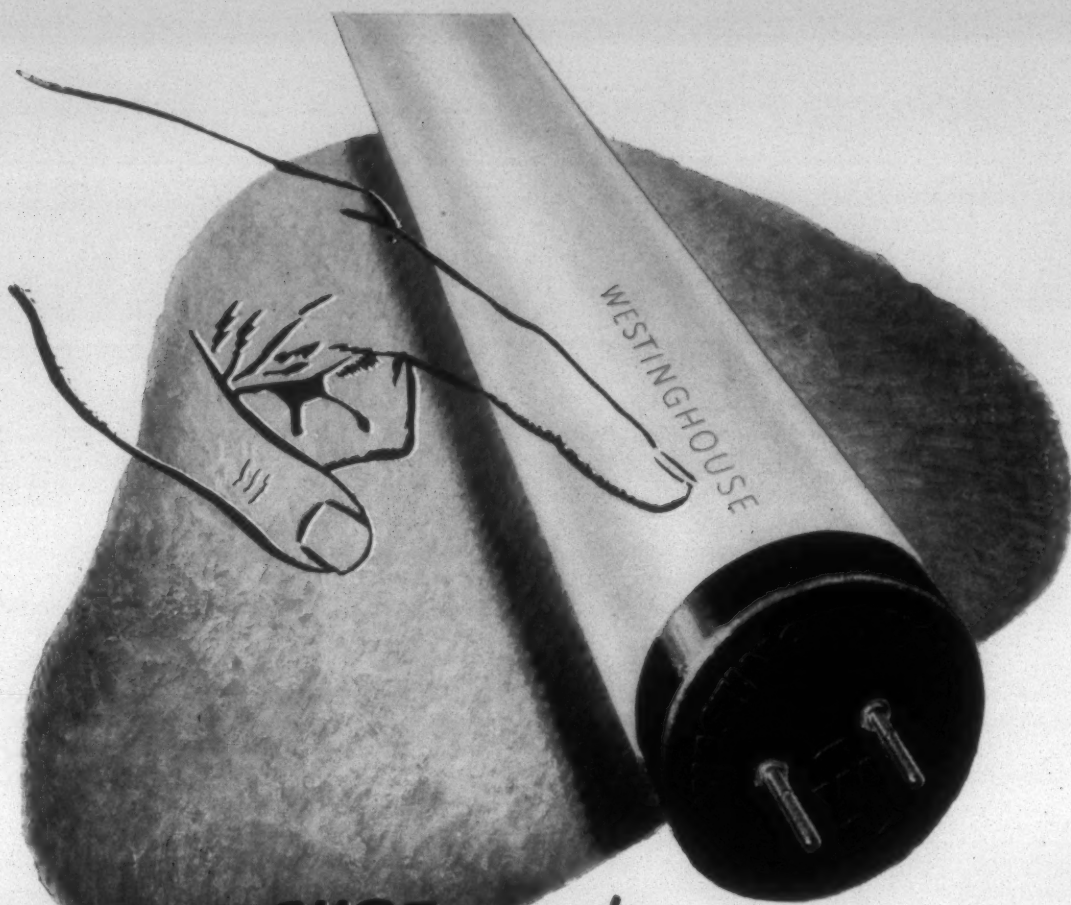
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When you use Westinghouse fluorescent lamps, you can be sure of uniformity, long life and high efficiency—the three important advantages you need to get the most out of your lighting system. So the next time you need lamps, specify Westinghouse.

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## *Opening, Picking, Carding & Spinning*

# THE MILL OF TODAY

By ROBERT Z. WALKER

### Part Six — Pickers

**T**HE advent of the one-process picker into the cotton mill has resulted in making the picking process one of the lowest priced operations in the mill. There has been a reduction in the number of operatives needed to tend the pickers and at the same time this reduction has not been at the sacrifice of cleaning efficiency or of production. On the contrary, the picking equipment has been improved so that the laps are cleaner, more completely opened, and have less variation per yard.

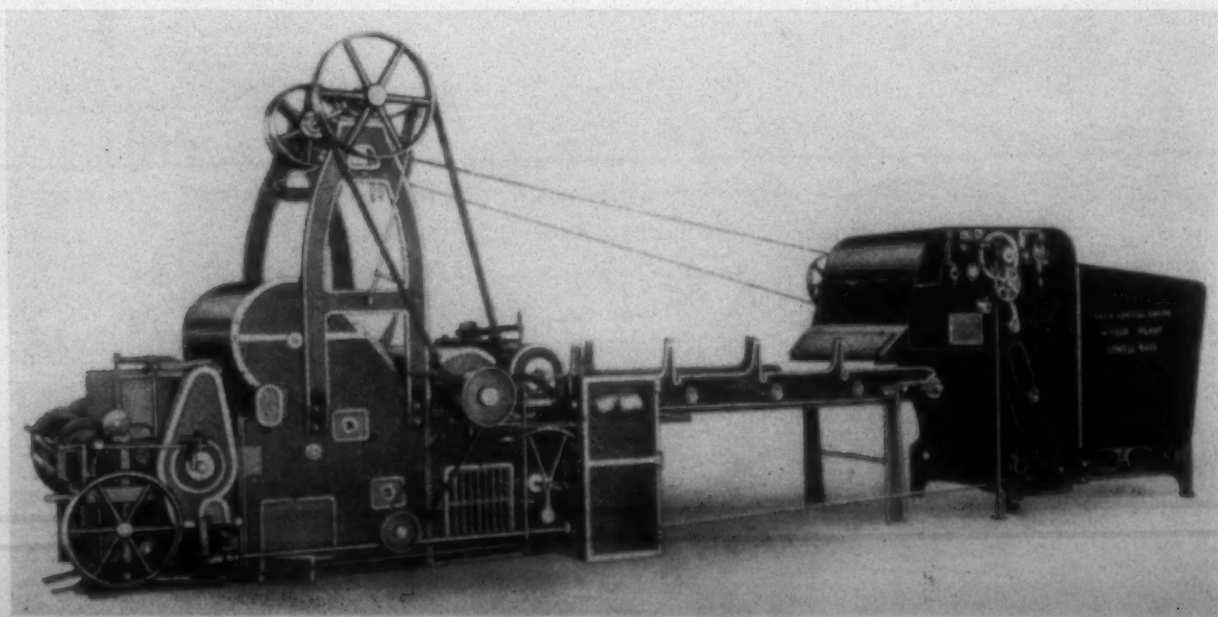
At one time it was considered essential that a mill making fine goods use three processes of picking, and for the coarse yarn mill to employ two picker operations. The greater number of pickers had to be used in order to obtain sufficient cleaning and to double the laps enough times to finish with a lap that was even and with satisfactory fiber blending. The pickers which were used were all one beater pickers and consisted of a beater, screen section, and calendar section.

The fine goods mill and most other mills used a breaker picker, intermediate picker, and finisher picker, while the other mills on lower counts omitted the intermediate. Blending and cleaning was accomplished by taking four of the laps from the breaker picker and combining them into one lap at the intermediate. This lap was then doubled with three others at the finisher to make the lap fed to the card. For a fine yarn mill this meant that 16 laps from the breaker picker were blended into one at the finisher and that there were four doubling for the mill which dismissed

the intermediate process. The breaker was fed from some distributing system leading from the opening room. The intermediate and finisher picker were furnished with apron rails which held the laps as they were unrolled to feed into the beater section.

It can be seen that there was required a comparatively large number of times that the lap had to be handled manually, from the breaker picker. The stock in the form of a lap had to be doffed and stored by the intermediate picker. The lap later had to be lifted onto the lap rails of the intermediate and afterward doffed. At the finisher picker the feeding and doffing was repeated. This repeated handling required a larger number of picker hands in the room, lowered the over-all efficiency of the picking process, and raised the cost per pound of the stock processed.

The one-process picker, if operating on the same stock that was fed to the old breaker picker, would not do as satisfactory a job as two or more different pickers. The one-process picker could not be introduced to the cotton mill until the opening line had been modernized and improved. It has been shown previously that the present opening line is composed of machinery which will feed stock to the picker in a well blended condition, free from a preponderance of trash and waste, and at a controlled volume. These three factors have made possible the one-process picker. It is no longer necessary to blend a number of laps into one to obtain uniformity of weight for automatic control feed systems operated by the picker maintain a smooth even flow



Combination breaker and finisher.

# WHY INITIAL A PRESSER ?

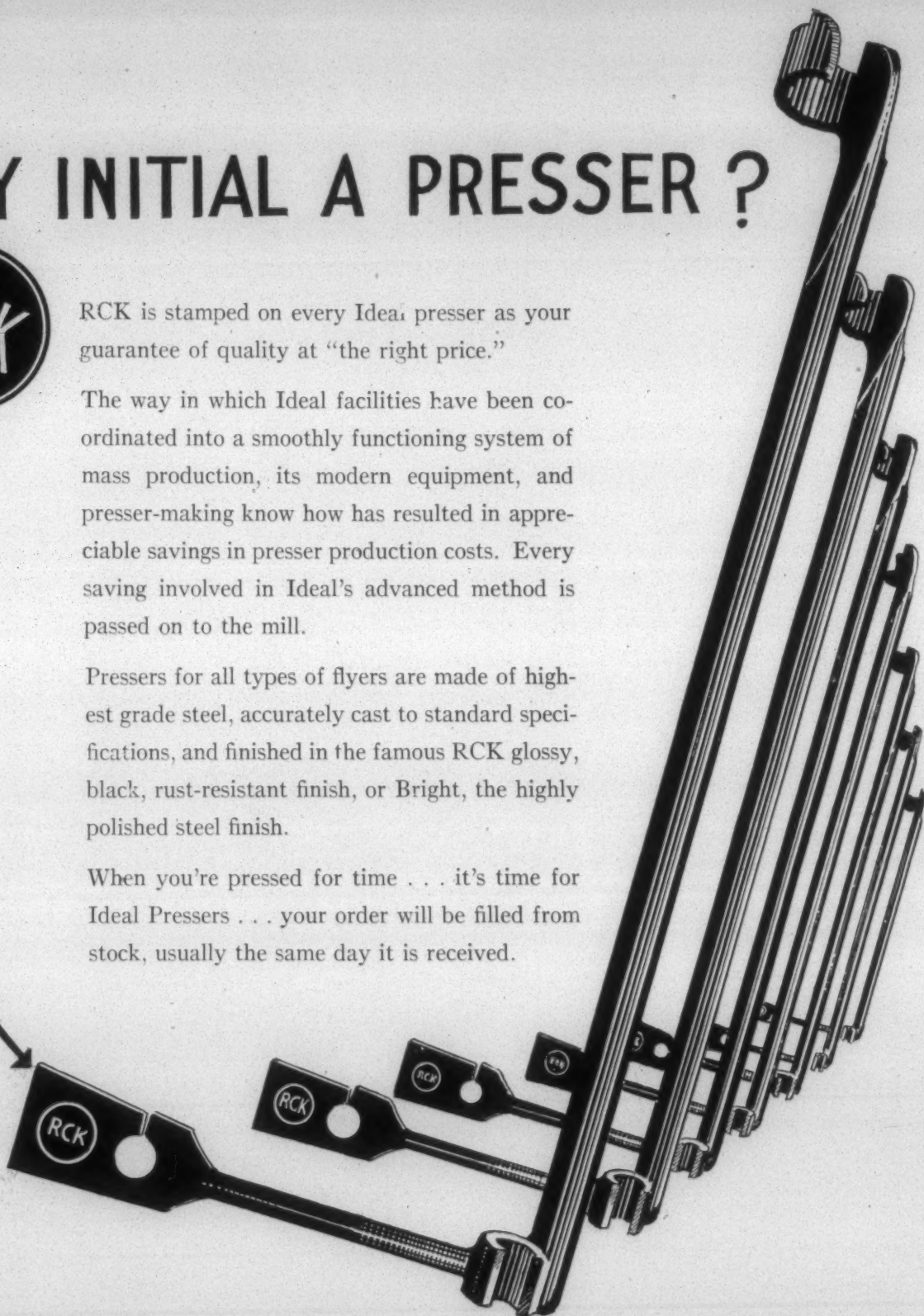
RCK

RCK is stamped on every Ideal presser as your guarantee of quality at "the right price."

The way in which Ideal facilities have been co-ordinated into a smoothly functioning system of mass production, its modern equipment, and presser-making know how has resulted in appreciable savings in presser production costs. Every saving involved in Ideal's advanced method is passed on to the mill.

Pressers for all types of flyers are made of highest grade steel, accurately cast to standard specifications, and finished in the famous RCK glossy, black, rust-resistant finish, or Bright, the highly polished steel finish.

When you're pressed for time . . . it's time for Ideal Pressers . . . your order will be filled from stock, usually the same day it is received.



## IDEAL MACHINE SHOPS, INC.

BESSEMER CITY, NORTH CAROLINA

24TH YEAR OF CONTINUOUS SERVICE TO TEXTILE MILLS

of stock to the breaker section. In addition to this feed control, the evener of the picker and the use of a blending reserve further hold the lap variation to a close maximum. The number of beats per inch of the old-style pickers can be matched by the one-process picker although, in general, this is not necessary due to the improved cleaning at the opening line. This is a real advantage as a reduction in the harsh treatment accorded cotton by beaters is reflected by an increase in breaking strength of the finished yarn, as long as the amount of cleaning is the same. The other reason for using two or more pickers is the blending of laps and this not necessary when the opening line is made up of a number of blending feeders feeding and blending on a feed table. In addition to the use of blending feeders, the present opening line is provided with reserve boxes at the condensers and these reservoirs of stock perform further blending. The one-process picker, with its proper opening line, can produce a lap cheaper, cleaner, more completely blended, and with less variation than three of the old-type pickers.

Breaker and finisher pickers are still used to some extent today, but in most cases this is when the mill is making blends of two or fibers which do not require the same opening treatment. For instance, when cotton and synthetic fibers are being blended the blending should be performed at the picker or before. However, it would be prohibitive from a cost standpoint to blend the fibers at the opening room as the synthetic need only be opened slightly while the cotton must be run through an extensive opening process for cleaning purposes. If the synthetic was put through the same opening line as the cotton the amount of good fiber wasted would make the finished lap too expensive. When such is the case the cotton is run through an opening line and then made into a lap at the breaker picker. The synthetic fiber is also opened and made into a lap on a breaker picker. The proper number of laps of the two fibers are then put up at the back of the finisher picker and blended together when making up the finished lap which is taken to the card.

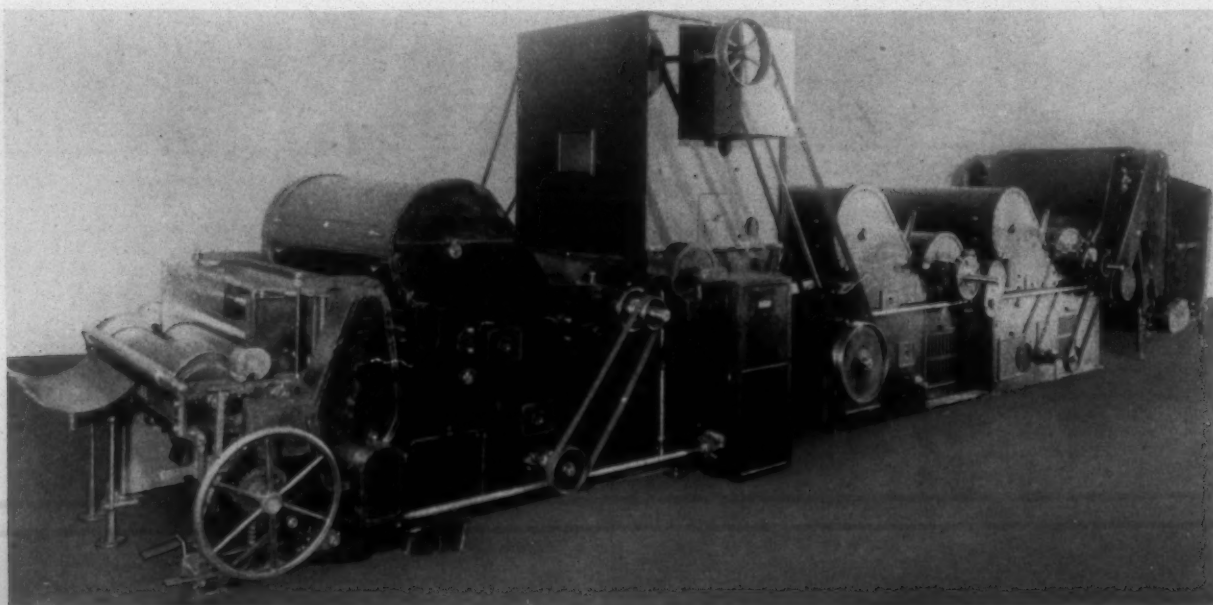
The main difference between a breaker picker and a finisher picker is the manner in which the stock is fed to the beater. The breaker picker has as its feeding unit a feeder while the finisher is fed by laps resting on lap rails. It is therefore possible to use the same picking unit as both a breaker and a finisher. This is often done in very small installations such as pilot units, experimental plants, or in making small lots of special yarns. Pickers of this type are known as combination pickers and have a feeder feeding onto an apron that is part of the lap rail. For breaker picking the stock is taken from a bin and fed to the feeder. The feeder then delivers the stock to the apron and thence to the beater. The breaker laps are placed on the lap rails along the apron and blended to form the finisher lap.

However, by far the majority of modern pickers are one-process. A one-process picker may be built either as two or three beater machines, corresponding roughly to two and three processes of picking in the older mill. A few years ago most of the one-process pickers were built in three beater sections but today the reverse is true as mills have found that two beaters will give sufficient cleaning and opening without damaging the fibers through excessive beating.

#### The Cleaning Function

The amount of cleaning that should be done at the opening line, at the picker, and at the card is something to which more study should be given. Not much is really known about the relation of cleaning (with regard to beats per inch) and breaking strength or to the division of the cleaning accomplished at different points in processing. By beats per inch is meant the number of times that a picker beater blade strikes while one inch of stock is fed to it.

There is a difference in the type of waste removed by the different opening machines, the picker, and the card. The difference may be slight in some cases but it is worthy of attention. Broadly speaking, it is assumed that the vertical opener will remove a preponderance of heavy waste such as stalk, large leaf particles, and sand. The horizontal opener will remove a greater amount of motes and lighter



Modern three-beater, one-process picker with blending reserve and hopper feed.

# GETTING THE MOST FROM WINDING

Information about winding designed to show improvements in winding equipment and new ideas in the winding operation



## CREPE TENSION

### No. 90 Winding Machine

This Crepe Tension is used in conjunction with the No. 90 Winding Machine which has long been recognized as the outstanding filling winder for a great variety of yarns. It is designed primarily to wind high twist crepe yarns from an overend supply.

Tension is applied in such a manner that yarn can be wound without running back twist between the tension and the supply. The tension discs receive motion from the yarn, which causes them to revolve in the same direction and at the same speed as the yarn itself.

Tension is obtained through a braking action on the tension wheel and is controlled by the compensator. The braking action is applied to the tension wheel by means of a brake band. This band is attached at one end to the compensator and at the other end to the tension bracket. Adjustments can be made at either end of the band in order to obtain the desired amount of tension. The tension

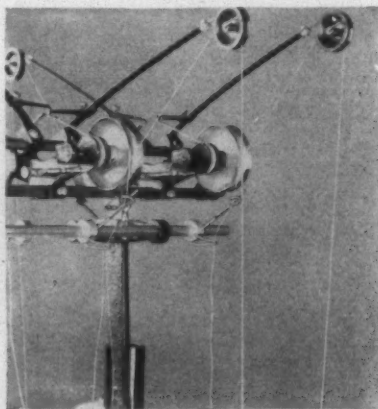


Fig. 1—No. 90 Crepe Tension

\*Reg. U.S. Pat. Off.

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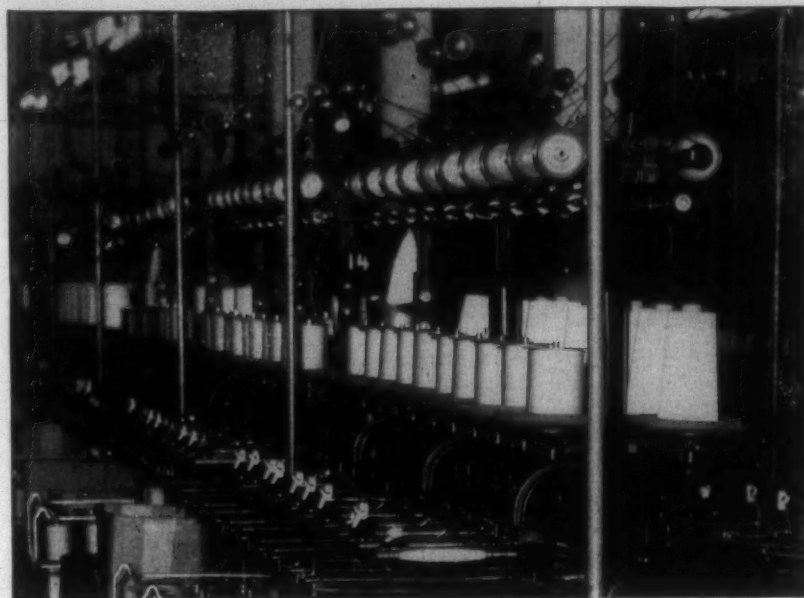


Fig. 2—Mill installation of No. 90 Winding Machine fitted with Crepe Tension

wheel is fixed to the shaft on which the discs are mounted, therefore, any drag that is placed on the wheel will be transmitted to the tension discs. Since tension applied in this manner does not perform a pinch action on the yarn, the possibility of twist displacement when winding is eliminated.

With this overend type of tension, a larger supply package—such as cones, tubes or spools designed for overend delivery—may be used. Also, a higher machine speed can be maintained than would be recommended for a rotating spool supply.

Periodic inspections should be made to see that the tensions and their component parts are correctly positioned and functioning properly:

1. Tension brackets mounted so that the left hand faces of the ten-

sion wheels are directly over the winding spindles.

2. Auxiliary guides positioned directly over the supply spindles.

3. Pigtailed inclined at 45° angle towards the tensions and slightly to the left of the center of the groove. Setting the pigtailed in this manner prevents any abrasive action between the yarn entering and leaving the "V" groove.

Should the brake bands become glazed after continual usage, causing the wheels to slip, tension will be lowered resulting in soft quills. Bands that have become glazed can be reconditioned by soaking them in Carbon Tetrachloride for approximately one hour.

See pages on Universal and Atwood Machinery in  
TEXTILE CATALOGS AND DAVISON'S

September 1948

WINDING AND TWISTING MACHINERY FOR NATURAL AND SYNTHETIC YARNS

# UNIVERSAL WINDING COMPANY

PROVIDENCE BOSTON PHILADELPHIA UTICA CHARLOTTE ATLANTA CHICAGO LOS ANGELES MONTREAL and HAMILTON

trash, while the picker will clean lighter material from the good stock. The card is the machine which should be called upon to remove the very light waste matter.

The main question is not how much to clean at the opening line and at the picker but how much cleaning of fine trash should be done at the picker and how much left for the card. Tests have been made in which the card motes and the picker motes were weighed. On some of the tests the pickers were set to remove a large amount of waste and on others the picker did very little cleaning. The interesting and important result of these tests was the discovery that the grand total of the card motes and the picker motes was just about the same every time. In other words, if the picker did a thorough job of cleaning the card did not but if the picker was set to clean only lightly then the card would remove the extra waste matter. The sum result in all cases seemed to indicate that a certain amount of cleaning could be accomplished and that this cleaning could be done either at the picker or the card. Of course, this applies only to the light waste matter as the heavy trash must be removed before reaching the card. The cleaning under discussion is performed on the card at the mote knives.

A picker has passing through it from 33 to 400 pounds of stock per hour and the opening line from 600 to 1,800 pounds per hour, figuring on a picker 40 inches wide. The picker has a strong draft of air going through the grid bars and this tends to draw the dust and light pepper trash back into the machine where it is again intermingled with the good stock. A 40-inch card is only processing from five to ten pounds per hour and the stock is passing over the mote knives with a dead air space beneath them. It is generally the case that the mote knives of the card are very much underworked. The knives are set to within a few thousandths of an inch from the lickerin and contact the stock at a time when it is very well opened so that the lighter motes not removed by the picker are taken out here.

Troubles with regard to trash in the yarn are never caused by the presence of large particles of trash but instead by pepper trash and neps. A proper balance of cleaning must be found between the picker room and the card. The picker must not be run to get too high a number of beats per inch for the sake of removing a few fine motes as the card will clean these anyway and the severe beating will damage the fiber, lower the yarn breaking strength, and will cause the formation of an excessive number of neps. This is true for low middling cotton as well as strict middling although low middling cotton, being shorter, will withstand more strenuous beating without forming neps than fine long staple fiber. Neps in low grade yarn are not as important as neps in fine quality yarn.

It can be seen that the beater speeds in the opening room machinery and the picker, and the amount of cleaning required at the mote knives of the card must be balanced so that over-cleaning is avoided. As the stock progresses through the opening line and the picker it is gradually opened more thoroughly. Removal of the fine trash should not be attempted until the stock has been acted upon sufficiently and opened to the point that the trash can be removed without excessive harsh handling. The amount of cleaning obtained at the picker should be determined by

weighing such factors as the strength of the staple, the required strength of the finished yarn, the production of the card, and the amount of waste in the stock.

Any discussion of beats per inch and the cleaning by beaters should include the different types of beaters which are used in the picker. At one time a 24-inch Buckley or porcupine beater was used in the breaker section of the one process picker. This beater is a very good opening beater but is not really suitable for a picker and has been replaced in most old pickers and is not built today. The blade beater is the best opening and cleaning beater and may be used in two sizes and two models, either 16 or 20 inches in diameter, and having either two or three blades. The 16-inch diameter is preferred as it does a more efficient job. This is due, not to the size of the beater itself, but to the curvature of the grid bars following around the beater. The smaller curvature of the 16-inch beater causes the stock to strike at a sharper angle as the angle of the tangent of the beater is greater. The sharp angle gives better cleaning and causes the stock to bounce back more quickly to the path of the beater blade. The result of the faster return to the beater is that the stock is struck against the grid bars more often and more trash is knocked out of the good fiber. The general preference is for two bladed beaters as the only advantage that the three bladed beater has is that it does not have to turn at such a high speed to deliver the same number of beats per inch as a two-bladed beater.

The Kirschner or carding beater is a three-armed beater with each arm or blade covered with a wooden lag. The face of the lag is spaced with steel pins which do the actual opening of the stock. The carding beater is usually positioned at the finisher section of the picker as it produces smooth even laps composed of small tufts of stock. It will not clean as well as a blade beater and if not kept in good condition may cause the formation of neps.

### System For Centrifugal Spinning Of Dry Yarns

Centrifugal spinning of dry yarns is now made possible, it is claimed, due to the invention of Prince-Smith & Stells, Ltd., Keighley, Yorkshire, England, of the P. S. C. (Prince-Smith Centrifugal) system. The textile machinery firm is being reorganized for the manufacture of the new system. Advance information concerning the P. S. C. system was released by Atkinson, Haserick & Co. of Boston, Mass., sole agents for the English firm in the United States and Canada.

Fundamental principle of the P. S. C. is the ability to remove the dry spun yarn from the container in a usable form of package. This opens up far-reaching possibilities of centrifugal spinning, hitherto considered impossible, in spinning all dry fibers such as worsted, woolen, cotton, silk and others. Each type of P. S. C. machine (drawing, spinning and twisting) may be used in conjunction with other machinery of the usual type, but the firm claims that the three types of P. S. C. should work together to obtain the most satisfactory results in efficiency and increased production.

Main advantages claimed for the new spinning machine include higher speeds, larger packages, less end breakage, a stationary bobbin, less labor and less floor space per pound of yarn produced. Prince-Smith will issue more complete and definite information concerning the new system at a later date and will notify the industry when it is in a position to undertake the supply of P. S. C. installations.

Read what Mr. Lawrence R. Brumby, Vice-Pres.  
of Bibb Manufacturing Company, Macon, Georgia

## says about the SACO-LOWELL CONTINUOUS CARD STRIPPER

Saco-Lowell  
60 Battery March Street  
Boston 10, Mass.  
Attention: Mr. A. K. Lanley

Dear Fritz:

As your records will show, we started installing continuous strippers in the Bibb in 1936 and have periodically continued to install continuous strippers until to date we have 1484 cards equipped with them, leaving only 171 cards in the Bibb that do not carry the continuous stripper. The only reason that we have not equipped these cards was that in the opinion of Saco-Lowell a continuous stripper would not operate satisfactorily on cotton staple lengths in excess of 1-1/8". Our experience, however, does not verify this opinion, and undoubtedly we will at a later date give serious consideration to equipping the balance of the cards in the Bibb.

By having continuous strippers on the cards you not only get a more uniform card sliver, but also in our opinion you get a better job of carding than otherwise.

On top of this, there is some saving in the amount of waste taken out by the card, but the biggest saving is in the extension of the periodic grinding of a card. We find that cards equipped with continuous strippers will operate three to five times as long between grinding periods as cards without strippers, which, of course, means that there is a tremendous saving in operating cost and time lost in production as well as a saving in card clothing due to not wearing out the card clothing through excess grinding.

Should there be any other information you would like to have about our experience, we will be very glad to give it to you.

Yours very truly,  
LAWRENCE R. BRUMBY  
BIBB MANUFACTURING COMPANY  
Vice President



1484 cards  
already  
equipped!

"By having continuous strippers on the cards you not only get a more uniform card sliver, but also in our opinion you get a better job of carding than otherwise."

With cotton and operating costs at current levels, Continuous Strippers on the cards now operating will earn an annual return ranging from 75% to 80% . . . on new cards, from 88% to 92%. At this rate, your saving will liquidate the capital investment in about 14 to 16 months.

Saco-Lowell Continuous Strippers can be installed on almost all makes of cards. A special catalog giving technical and engineering data will be sent promptly on request . . . write our nearest office.

SACO-LOWELL  
COTTON MACHINERY  
CONTINUOUS CARD STRIPPER



# SACO-LOWELL

60 BATTERY MARCH STREET, BOSTON 10, MASS.

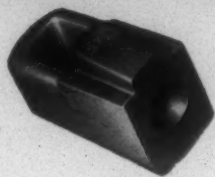
Shops at BIDDEFORD, MAINE

SALES OFFICES: CHARLOTTE • GREENVILLE • ATLANTA

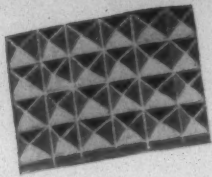
# Rubber Loom Necessities

Manufactured by **JACOBS**

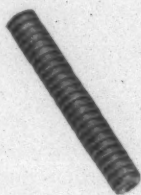
Years of mill-wise experience is reflected in this growing line of rubber loom equipment. Each product has been tried and proven in use!



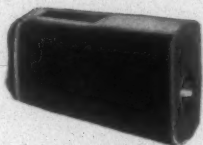
**"X" MODEL  
SUPER PICKER  
for Draper Looms**



**SAND ROLL COVERING**  
Pyramid Design — enlarged  
the best gripping surface  
yet devised — white

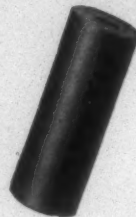


**TEMPLE ROLLS**  
made in any desired  
cut or thread

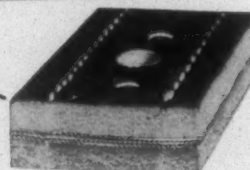


**"E" MODEL  
SUPER PICKER**

**TUBULAR SPINDLE  
BUMPER**



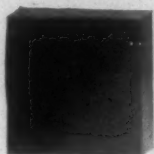
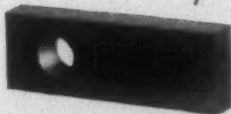
**NAG BUNTER**



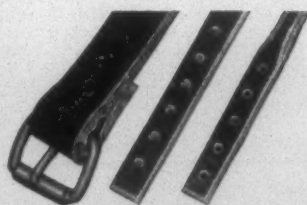
**RUBBERIZED FABRIC  
STRAPPING**



**"W" BUNTER  
for W-2 and  
W-3 Looms**



**BUNTERS**  
Made in any  
size and shape



**RUBBERIZED FABRIC  
STRAPS AND STRAPPING**



**RUBBERIZED FABRIC STRAPPING**  
Any width, and in rolls  
up to 100 feet long

**E. H. JACOBS NORTHERN DIVISION**

The Bullard Clark Company  
DANIELSON, CONNECTICUT

# Warp Preparation & Weaving

## Spot Designs

By THOMAS NELSON, Dean Emeritus, School of Textiles  
North Carolina State College, Raleigh

**S**POT designs are made on the surface of a fabric and are used widely for embellishment. This is applicable especially when rayon filling figures are employed, since the rayon is thrown to the face of the fabric.

Small spot designs are very suitable for such fabrics as dress materials, although they are also used for a variety of purposes such as shirtings, blouses and in larger spots for upholstery and decorative fabrics.

Different methods are used to make these designs: *first*—warp or filling spots on a plain ground; *second*—warp spots on a filling ground; and *third*—filling spots on a warp ground.

The spots can be made in a variety of ways and in different sizes, such as circles, diamonds, rectangles, geometrical figures; they may be used separately or in combination. The spots are arranged in various orders, such as plain, four harness broken twill, five, six and eight harness satin. Setting out the spots in this way makes it possible to distribute them so that they will give more or less of an all over effect and not appear to run in lines.

When putting these spots on design paper, the following points should be observed: *first*, decide how many ends and picks the spot will occupy in one repeat of the pattern; *second*, decide the order in which the spots must be inserted; *third*, decide on the ground weave to be used (it must divide equally into the ends and picks in pattern); *fourth*, divide the number of ends and picks into an equal number of divisions called for by the spots; *fifth*, near the center of each division put a mark which will be the base of the spot, then fill in the spot; *sixth*, fill in the ground weave, taking care that this does not run into the figure.

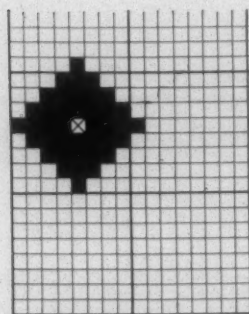


Fig. 1

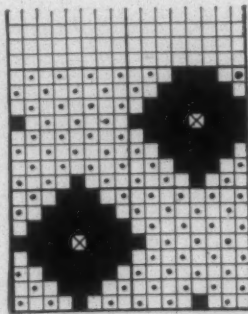


Fig. 2

Fig. 1 is a warp spot to be made on 16 x 16 ends and picks in plain weave order, on a plain ground. Fig. 2 illustrates the design. The center of the spot, indicated by an x, is placed as near the center of the first block of 8 x 8, and also in the second block of 8 x 8. In making any kind of spot on a plain ground weave it is necessary that the outline of the spot join correctly with the ground weave.

Fig. 3 illustrates a filling spot made in plain weave order on 16 x 16 ends and picks on a plain ground weave.

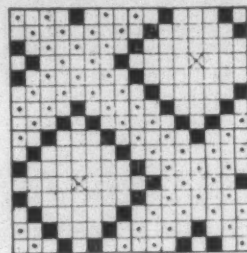


Fig. 3

Fig. 4 illustrates a warp spot arranged in plain weave order on 16 x 16 ends and picks on a plain ground weave. In an oblong pattern of this description the figures seem to run in lines; to remedy this defect one of the figures should be turned in the opposite direction as illustrated at Fig. 5.

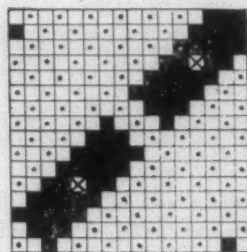


Fig. 4

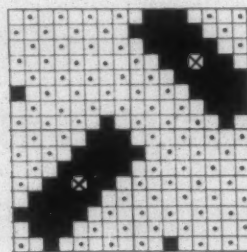


Fig. 5

Fig. 6 is a warp spot to be arranged in four harness broken twill order on 16 x 16 ends and picks. The ends and picks are divided into equal parts of 4 x 4 and the spot inserted in the order required. Fig. 7 illustrates the design.

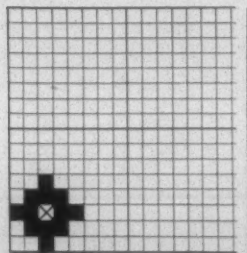


Fig. 6

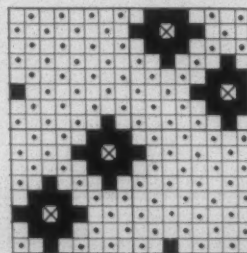


Fig. 7

Fig. 8 is a design using the warp spot Fig. 6 with the spots arranged in five harness satin order on 20 x 20 ends and picks on a plain ground weave. The ends and picks are divided into squares of four and spot inserted. Fig. 9 is the

corresponding filling spot arranged in five harness satin order on a plain ground weave.

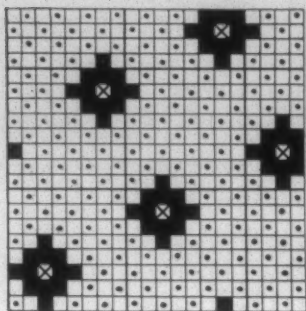


Fig. 8

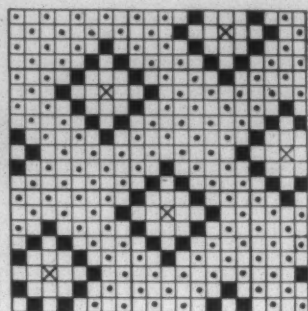


Fig. 9

Fig. 10 is a spot arranged in six harness satin order on 24 x 24 ends and picks with a 1 up, 3 down twill ground weave, the twill running in the same direction as the figure. Fig. 11 is the same spot and ground weave but with the twill running in the opposite direction to the figure. Fig. 12 is the same spot arranged in eight harness satin order on a plain ground weave.

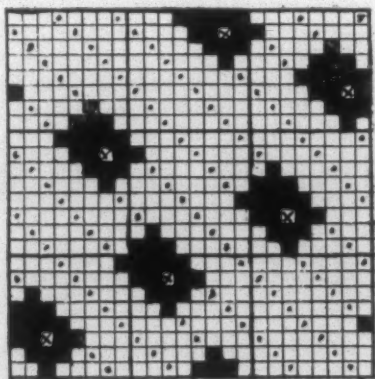


Fig. 10

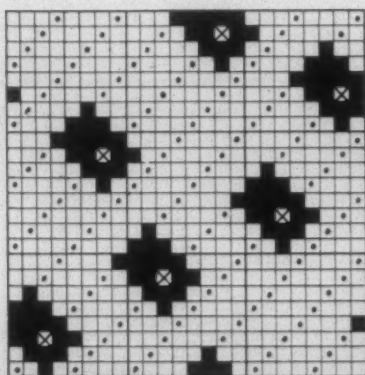


Fig. 11

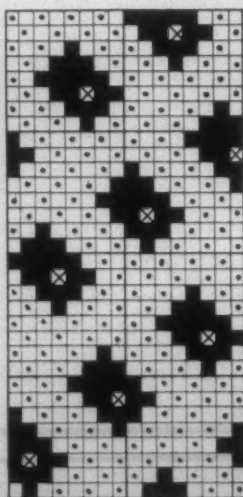


Fig. 12

Fig. 13a illustrates a broadcloth shirting fabric made on a dobby, the spots being in the form of a diamond and arranged in plain weave order on a plain weave ground. Fig. 13b illustrates a dress goods fabric made on a dobby, the ornamental effect consisting of a series of small spots developed in rayon with the series arranged in plain weave order on a plain weave ground. Fig. 13c illustrates an imported English shirting fabric with the spots arranged in plain weave order on a plain weave ground, and a five harness satin stripe. Fig. 13d illustrates an imported French Couetil jacquard fabric with the spots arranged in four harness broken twill order.

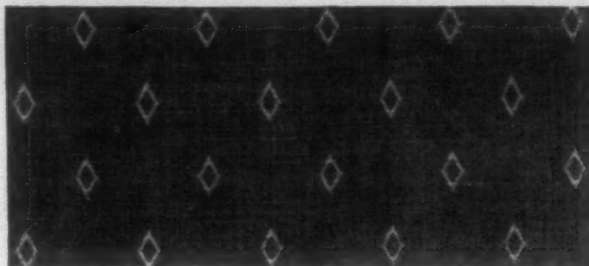


Fig. 13a

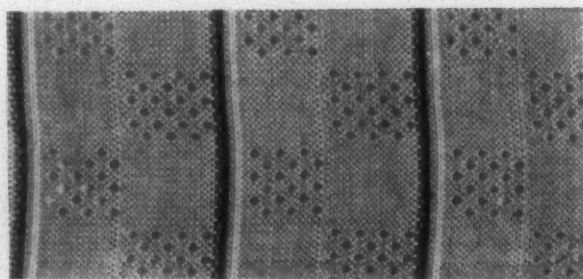


Fig. 13b

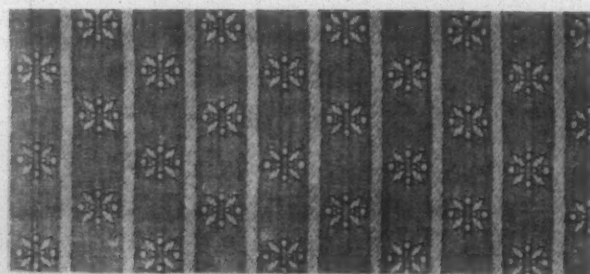


Fig. 13c



Fig. 13d

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You are cordially invited to visit our exhibit, Booth 225E, at the 15th Southern Textile Exposition, Textile Hall, Greenville, South Carolina, October 4th to 9th, 1948. There will be in operation a Warp Applicator Unit demonstrating the process for the separate application of SLIX.



SLIX is our registered trade mark for the new type liquid warp lubricant designed for application under the process patented in U. S. Patent No. 2,074,745.

Applied separately from the starch film, and at the outer edge of the individual warp ends, SLIX imparts surface lubrication to the shuttle and other loom parts which effects a

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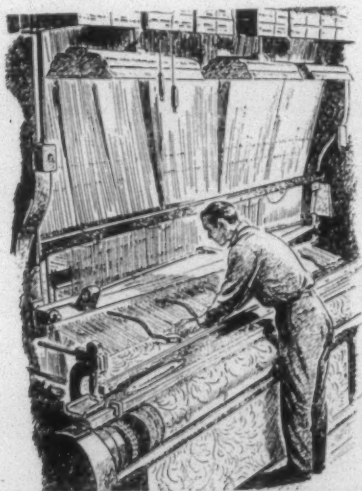
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## Fieldcrest Goes Persians One Better

RUGS that capture the beauty, design and texture of Persian Orientals are being successfully mass-produced in Leaksville, N. C., at Karastan Rug Mill, one of the largest units of Fieldcrest Mills, manufacturing division of Marshall Field & Co., at the rate of about 75,000 per year. Karastan Rug Mill, a model plant overlooking the Dan River in Leaksville, came into being in the early 1920s and by 1928, after constant effort on the part of designers, chemists, engineers and technicians, Karastan, the registered name for the new type of rug, was ready for the world's markets.

The mill has 310,000 square feet of floor space and 44 power rug looms are in constant operation. About 850 persons are employed at the plant.

The principal raw material used is wool and it is estimated that each year 3,000,000 pounds of wool are woven into rugs and broadloom. Since American wools are not considered suitable, Karastan imports its wool from Tibet, China, India, New Zealand, Scotland and Iran. The wool is returned to some of these countries in the form of the finished product, Karastan rugs.



The secret of Karastan's moderate price, as compared to the Persian originals, is attributed to power looming. The big looms, some of them weighing as much as 22 tons and weaving to a width of 18 feet, are especially designed for their task. Fine American cotton yarn supplies the backing through which the worsted surface yarns are woven. Mechanical fingers anchor each tuft through the backing.

Karastan rugs, however, are not entirely machine-made. There is said to be more hand work on a Karastan than on any other machine-made rug. The setting of the pattern requires accurate hand work. After the dyed yarn is wound on spools the colors are arranged to correspond to the design on the checked paper. The yarns are then wound on loom spools until the pattern is complete. In a nine by 12 Karastan, 756 different yarn ends must be correctly placed to make

one row of tufts in the rug. Ten experienced setters require an average of ten days to set the yarns for weaving.

The designing department at Karastan is headed by E. N. Sedell, whose job it is to design the product. The first step in designing is styling, considered vital because poor styling or coloring would mean disaster. Most of the Karastan styling is taken care of in the company's New York offices by the mill's own stylist and the sales department. The current trend is in favor of Kirmans and Sarouks in tans, roses, reds and blues. The Louvre line, a hand-carved product, and Decorette, the small ovals, also are in great demand.

Karastan rugs are actual reproductions of Oriental patterns. Power looms reproduce details of work done by hand on the original pattern. Rugs that are accepted for manufacture are traced with great care in order to retain the oriental handwriting of each particular rug. The designer who is selected to do this work receives instructions and advice on the execution of the design, or any changes necessary to produce the rug on a commercial basis. The tracing is then transferred to graph paper, rebalanced and made to fit commercial sizes.

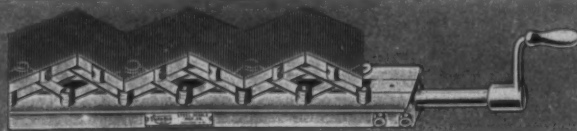
The next step is the matching of colors. In matching exactly the colors in the oriental, Karastan often makes six or seven dyeings of each color in order to get the proper shade. To determine their fastness to light and washing, the colors have to be approved by the quality control laboratories before being used. After selection of colors, the next step is for the designer to mix his water colors and paint the design on graph or design paper, doing small sections at a time until the complete design is finished. This requires from three to six months. The average design has about 35 colors but some contain as many as 65 colors or shades.

When completed, the painted design is rematched with the Oriental for color and design balance. When it is agreed that the design is perfect it is numbered with the color numbers to be used and is then sent to the setting department to be sampled. After sampling, the rug is checked again against the original, both at the plant and in the New York sales office.

Karastan rugs are Leaksville's most famous product and a source of local pride. J. M. Norman, Jr., manager of the plant, is a native of Henry County, Va., and has lived in Leaksville since 1918. Virgil Hall, superintendent, is a native of Stokes County, N. C., and has been at Karastan since 1922. J. B. Reynolds, staff assistant, is a native of Rockingham County, N. C., and went to work at Karastan upon finishing school in 1925.

More than 20 million home-conscious Americans will be told of the aesthetic and practical advantages of canvas awnings next Spring through a co-operative advertising and sales promotion program just initiated by the Canvas Awning Institute and the National Cotton Council.

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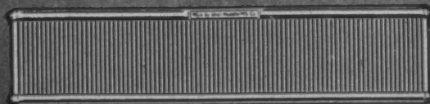
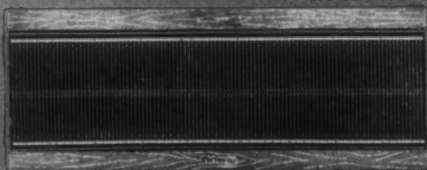
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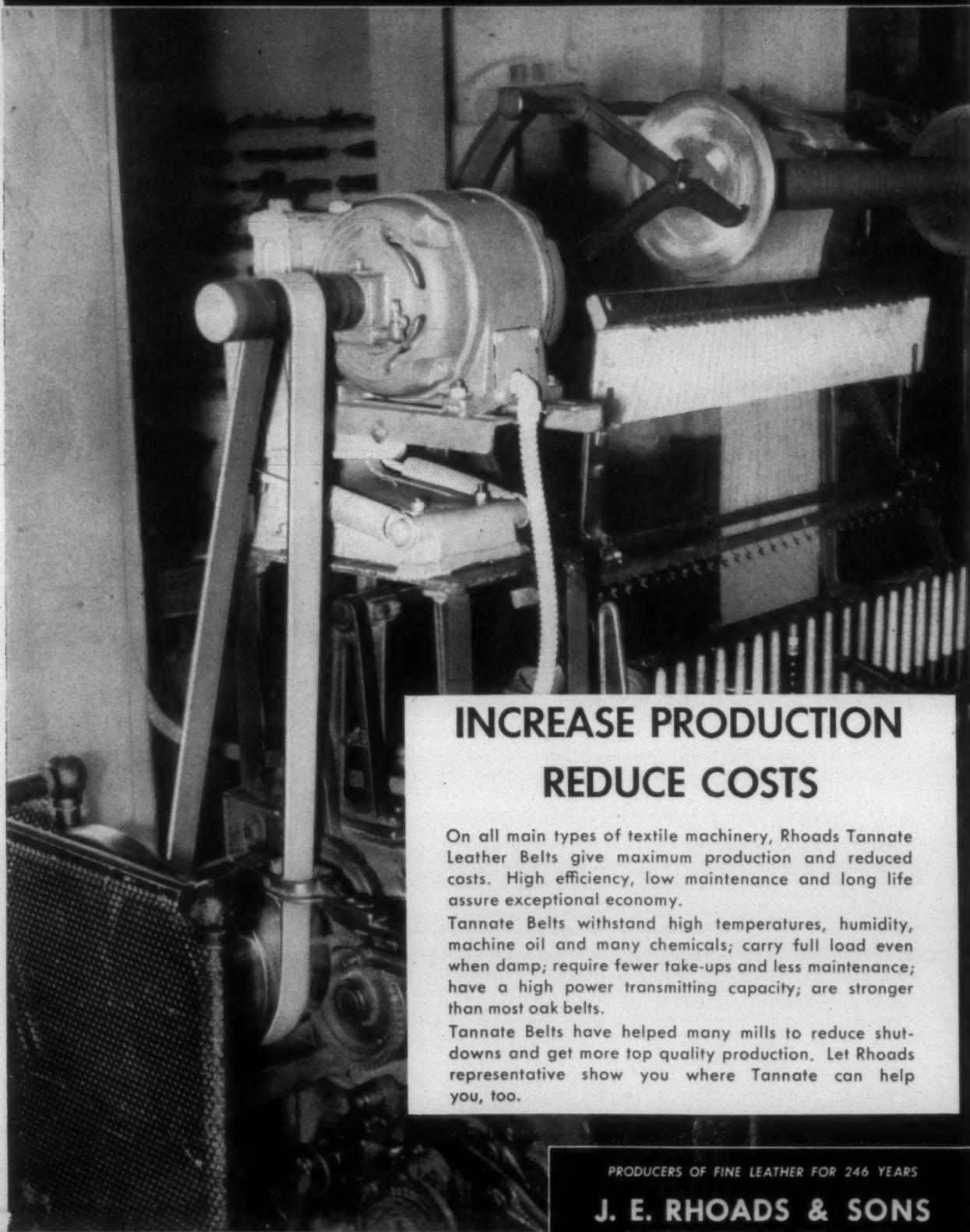
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# Maintenance & Engineering

## The Electrical Code And Textile Mill Wiring

Part Eleven of a Series by JAMES T. MEADOR

THIS time we follow through on the idea of circuit layout for electric motors which we started in the last issue of the TEXTILE BULLETIN. And, this will be very easy to do since the motors were all given with their ratings in amperes and the sizes of individual branch circuits in both wire and conduit sizes. What we want to do now is to go a little further with the job of figuring a feeder circuit to take all of the motors listed, such as we'd have to have for a power service entrance where those motors would all be in a mill.

Now, let's assume that we will follow the usual practice of good mill wiring, considering temperatures, etc., which are encountered in such places, and decide that we will use Varnished Cambric insulated wire, which puts us in Column No. 3 for wire and conduit sizes, etc., as shown in the August issue of TEXTILE BULLETIN. Also, let's go back to the same issue and look up Section No. 4314, covering "Conductors supplying several motors." Note that it says that "conductors supplying two or more motors shall have a current carrying capacity of not less than 125 per cent of the full load current rating of the largest motor in the group plus the sum of the full load current ratings of the remainder of the motors in the group."

Well, we find along with this section in that issue a tabulation of the ratings of the various motors of that group. So, we'll tabulate them in order to find out the size of our main feeder cable, as follows, only we'll reverse the order of listing them so as to show the rating of the biggest motor by 125 per cent, to which we'll add the full load current ratings of the other motors. All at 550 volts.

100	H.P.	98	amperes	×	125%	=	122.5	amperes
75	H.P.	74	amperes	×	100%	=	74.0	amperes
50	H.P.	50	amperes	×	100%	=	50.0	amperes
40	H.P.	41	amperes	×	100%	=	41.0	amperes
25	H.P.	26	amperes	×	100%	=	26.0	amperes
15	H.P.	16	amperes	×	100%	=	16.0	amperes
10	H.P.	11	amperes	×	100%	=	11.0	amperes
7½	H.P.	9	amperes	×	100%	=	9.0	amperes
5	H.P.	6	amperes	×	100%	=	6.0	amperes
Total amperes feeder load								= 355.5 amperes

This shows that our feeder must have a capacity of 355.5 amperes, which, when we refer to Table No. 1 of Chapter 10, of the National Electrical Code, in the column for Varnished Cambric Cable, leads us to learn that a V. C. Cable of 400,000 cir. mils would carry the load, but, we never heard of such a size being carried in any stock in these parts, or any other parts either. So, we take the next step and decide upon 500,000 cir. mils cable as being the size to use. Table No. 4 confirms what we already knew; that is, that three-inch conduit was necessary and of the proper size for three of these cables to a circuit.

This, then, places us in the next step, which is that of determining the size of main fuses for this circuit. How-

ever, a preliminary step to this is to first decide what type of starters we are going to use and find out what size or rating of fuses we will have to use on each branch circuit. This we'll do as follows (see Table No. 20):

100	H.P.	compensator starter,	200	ampere fuses (Col. 9)
75	H.P.	compensator starter,	150	ampere fuses (Col. 9)
50	H.P.	compensator starter,	100	ampere fuses (Col. 9)
40	H.P.	compensator starter,	80	ampere fuses (Col. 9)
25	H.P.	magnetic starter,	60	ampere fuses (Col. 8)
15	H.P.	magnetic starter,	40	ampere fuses (Col. 8)
10	H.P.	magnetic starter,	25	ampere fuses (Col. 8)
7½	H.P.	magnetic starter,	20	ampere fuses (Col. 8)
5	H.P.	magnetic starter,	15	ampere fuses (Col. 8)

Now all of the above ratings on fuses for the different sizes of motors are taken from Table No. 20, Chapter 10, of the code, in accordance with Sections 4321 through 4363, which cover most all of our electrical requirements in this phase of circuit design.

### Motor Overcurrent Protection

*Section 4321, General*—The following provisions specify overcurrent devices intended to protect the motors, the motor-control apparatus, and the branch-circuit conductors against excessive heating due to motor overloads.

*Section 4322, Continuous Duty Motors*—Each continuous duty motor shall be protected against running overcurrent as follows:

(a) *More than one Horsepower.* For a motor rated more than one horsepower, this protection shall be secured by the use of one of the following means:

1. A separate overcurrent device which is responsive to motor current. This device shall be rated or set at not more than 125 per cent of the motor full-load current rating for an open type motor marked to have a temperature rise not over 40° C., and at not more than 115 per cent for all other types of motors. This value may be modified as permitted by Section 4324.

2. A protective device integral with the motor which is responsive to motor current or to both motor current and temperature. This device must be approved for use with the motor which it protects on the basis that it will interrupt current to the motor when the motor is operated in an ambient temperature of 40° C. and with overcurrent of the percentage values given in Paragraph 1 of this section. This value may be modified as permitted by Section 4324. If the motor current interrupting device is separate from the motor and its control circuit is operated by a protective device integral with the motor, it must be so arranged that the opening of the control circuit will result in interruption of current to the motor.

(b) *One Horsepower or Less, Manually Started.* Any motor of one horsepower or less which is manually started and which is within sight from the starter location, shall be

considered as protected against overcurrent by the overcurrent device protecting the conductors of the branch circuit. This branch circuit overcurrent device shall not be larger than that specified in Table 20, Chapter 10, except that any such motor may be used at 125 volts or less on a branch circuit protected at 20 amperes. Any such motor which is out of sight from the starter location shall be protected as specified in Paragraph (c) for automatically started motors. A distance of more than 50 feet is considered equivalent to being out of sight.

(c) *One Horsepower or Less, Automatic Started.* Any motor of one horsepower or less which is started automatically shall be protected against overcurrent by the use of one of the following means:

1. A separate overcurrent device which is responsive to motor current. This device shall be rated or set at not more than 125 per cent of the motor full-load current rating for an open-type motor marked to have a temperature rise not over 40° C., and at not more than 115 per cent for all other types of motors. This value may be modified as permitted by Section 4324.

2. A protective device integral with the motor which is responsive to motor current or to both motor current and temperature. This device must be approved for use with the motor which it protects on the basis that it will prevent dangerous overheating of the motor due to overload or failure to start. If the motor current interrupting device is separate from the motor and its control circuit is operated by a protective device integral with the motor, it must be so arranged that the opening of the control is operated by a protective device integral with the motor, it must be so arranged that the opening of the control circuit will result in interruption of current to the motor.

3. If part of an approved assembly which does not normally subject the motor to overloads and which is also equipped with other safety controls (such as the safety combustion controls of a domestic oil burner) which protect the motor against damage due to stalled rotor current. Where such protective equipment is used it shall be indicated on the name-plate of the assembly where it will be visible after installation.

4. If the impedance of the motor windings is sufficient to prevent overheating due to failure to start, the motor may be protected as specified in Paragraph (b) for manually started motors. Many alternating-current motors of less than 1/20 h. p., such as clock motors, series motors, etc., and also some larger motors such as torque motors, come within this classification. It does not include split-phase motors having automatic switches to disconnect the starting winding.

(d) *Wound-Rotor Secondaries.* The secondary circuits of wound-rotor alternating-current motors, including conductors, controllers, resistors, etc., shall be considered as protected against overcurrent by the motor-running overcurrent device.

*Section 4323, Intermittent and Similar Duty*—A motor used for a condition of service which is inherently short time, intermittent, periodic, or varying duty (as illustrated by the table in Section 4312) is considered as protected against overcurrent by the branch-circuit overcurrent device, provided the overcurrent protection does not exceed

that specified in Tables 26 and 27, Chapter 10. Any motor is considered to be for continuous duty unless the nature of the apparatus which it drives is such that the motor cannot operate continuously with load under any condition of use.

*Section 4324, Selection of Setting of Protective Device*—Where the values specified for motor-running overcurrent protection do not correspond to the standard sizes or ratings of fuses, non-adjustable circuit-breakers, thermal cutouts, thermal relays, the heating elements of thermal trip motor switches, or possible settings of adjustable circuit-breakers adequate to carry the load, the next higher size, rating or motor full-load current rating. If not shunted during the starting period of the motor (see Section 4325), the protective device shall have sufficient time delay to permit the motor to start and accelerate its load.

*Section 4325, Shunting During Starting Period*—If the motor is manually started, the running overcurrent protection may be shunted or cut out of circuit during the starting period of the motor, provided the device by which the overcurrent protection is shunted or cut out cannot be left in the starting position, and the motor shall be considered as protected against overcurrent during the starting period if fuses or time-delay circuit-breakers rated or set at not over 400 per cent of the full-load current of the motor, are so located in the circuit as to be operative during the starting period of the motor. The motor-running overcurrent protection shall not be shunted or cut out during the starting period if the motor is automatically started.

*Section 4326, Fuses—In Which Conductor*—If fuses are used for motor-running protection, a fuse shall be inserted in each ungrounded conductor.

*Section 4327, Devices other than Fuses—In Which Conductor*—If devices other than fuses are used for motor running protection, the following table shall govern the minimum allowable number and location of overcurrent units such as trip coils, relays, or thermal cutouts.

Motor	Supply System	Number and Location of Overcurrent Units
1-phase, A.C., or D.C.	Ungrounded, 2-wire, 1-phase, A.C. or D.C.	1 in either conductor
1-phase, A.C., or D.C.	Grounded, 2-wire, 1-phase, A.C. or D.C.	1 in ungrounded wire
1-phase, A.C., or D.C.	Grounded neutral, 1-phase, 3-wire, A.C.	1 in either ungrounded wire
3-phase, A.C.	Ungrounded, 3-wire, 3-phase, A.C.	2 in any 2 wires
3-phase, A.C.	Grounded neutral, 4-wire, 3-phase, A.C.	2 in any 2 wires except neutral

*Section 4328, Number of Conductors Disconnected by Overcurrent Device*—Motor-running protective devices, other than fuses or thermal cutouts, shall simultaneously disconnect a sufficient number of ungrounded conductors to interrupt current flow to the motor.

*Section 4329, Motor Controller as Running Protection*—A motor controller may also serve as the running overcurrent device if the number of overcurrent units complies with the foregoing Section 4327; and if these overcurrent units are operative in both the starting and running position in the case of a D. C. motor, and in the running position in the case of an A. C. motor.

*Section 4330, Thermal Cutouts and Relays*—Thermal cutouts, thermal relays, and other devices for motor-running protection which are not capable of opening short-circuits, shall be protected by fuses or circuit breakers with ratings or settings of not over four times the rating of the motor for which they are designed, unless approved for

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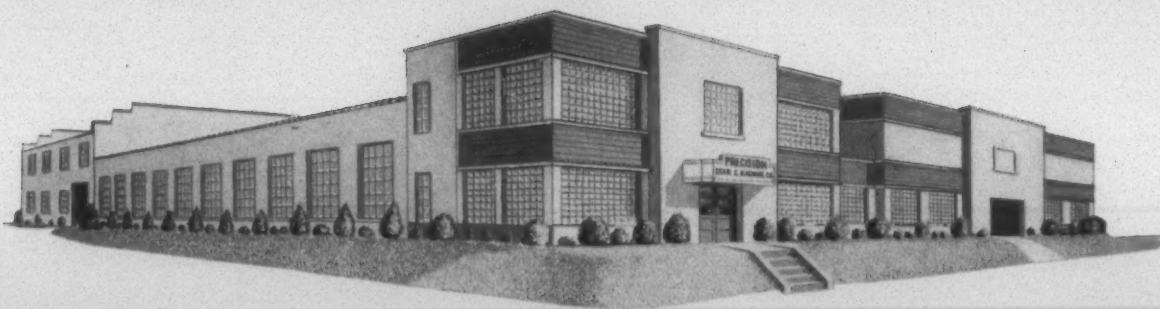
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group installation, and marked to indicate the maximum size of fuse by which they must be protected.

*Section 4331, Rating of Protective Device*—Motor-running overcurrent devices other than fuses shall have a rating of at least 115 per cent of the full-load current rating of the motor.

*Section 4332, With Lamps or Receptacles*—Overcurrent protection for motors used on branch circuits which also supply lamps or receptacles as permitted in Article 210, shall be provided as follows:

(a) One or more motors without individual overcurrent protection may be connected to the branch circuits described in Article 210 only when the limiting conditions specified for each of two or more motors in Paragraph (a) of Section 4343 are complied with.

(b) Motors of larger ratings than specified in Paragraph (a) of Section 4343 may be connected to the branch circuits described in Article 210 only if provided with individual running overcurrent protection selected to protect the motor as specified in Section 4322. Both the controller and the motor-running overcurrent device shall be approved for group installation with the protective device of the branch circuit to which the motor is connected.

(c) If a motor is connected to a branch circuit by means of a plug and receptacle, and individual overcurrent protection is omitted as provided in Paragraph (a), the rating of the plug and receptacle shall not exceed 15 amperes at 125 volts or ten amperes at 250 volts. If individual overcurrent protection is required as provided in Paragraph (b) for a motor or motor-operated appliance provided with an attachment plug for attaching to the branch through a receptacle, the running overcurrent device shall be an integral part of the motor or of the appliance. The rating of the plug and receptacle shall be assumed to determine the rating of the circuit to which the motor may be connected, as provided in Article 210.

(d) The overcurrent device protecting a branch circuit to which a motor or motor-operated appliance is connected shall have sufficient time delay to permit the motor to start and accelerate its load.

*Section 4333, Automatic Restarting*—A motor-running protective device which can restart a motor automatically after overcurrent tripping shall not be installed unless approved for use with the motor which it protects. A motor which can restart automatically after shutdown shall not be installed so that its automatic restarting can result in injury to persons.

### Motor-Branch-Circuit Overcurrent Protection

*Section 4341, General*—The following provisions specify overcurrent devices intended to protect the motor-branch-circuit conductors, the motor control apparatus, and the motors against overcurrent due to short-circuits or grounds. They are in addition to or amendatory of the provisions of Article 240.

*Section 4342, Rating or Setting for Individual Motor*—The motor-branch-circuit overcurrent device shall be capable of carrying the starting current of the motor. Overcurrent protection shall be considered as being obtained when this overcurrent device has a rating or setting not exceeding

the values given in Tables 26 or 27, Chapter 10; provided that where the overcurrent protection specified in the table is not sufficient for the starting current of the motor, it may be increased, but shall in no case exceed 400 per cent of the motor full-load current. Fuse ratings calculated on this basis are given in Columns 7, 8, 9, and 10 of Table 20, Chapter 10. See example No. 6, Chapter 10, and Diagram No. 20, Chapter 10.

*Section 4343, Several Motors on One Branch Circuit*—Two or more motors may be connected to the same branch circuit under the following conditions:

(a) Two or more motors each not exceeding one H. P. in rating and each having a full-load rated current not exceeding six amperes, may be used on a branch circuit protected at not more than 20 amperes at 125 volts or less, or 15 amperes at 600 volts or less. Individual running overcurrent protection is unnecessary for such motors unless required by the provisions of Section 4322.

(b) Two or more motors of any ratings, each having individual running overcurrent protection, may be connected to one branch circuit provided all of the following conditions are complied with:

1. Each motor-running overcurrent device must be approved for group installation.

2. Each motor controller must be approved for group installation.

3. The branch circuit must be protected by fuses having a rating equal to that specified in Section 4342 for the largest motor connected to the branch circuit plus an amount equal to the sum of the full load current ratings of all other motors connected to the circuit.

4. The branch circuit fuses must not be larger than allowed by Section 4330 for the thermal cutout or relay protecting the smallest motor of the group.

5. The conductors of any tap supplying a single motor need not have individual branch circuit protection, provided they comply with either of the following: (1) no conductor to the motor shall have a current-carrying capacity less than that of the branch circuit conductors, or (2) no conductor to the motor shall have a current-carrying capacity less than one-third that of the branch circuit conductors, with a minimum in accordance with Section 4312, the conductors to the motor-running protective device being not more than 25 feet long and being protected from mechanical injury.

*Section 4344, Combined Overcurrent Protection*—Motor-branch-circuit overcurrent protection and motor-running overcurrent protection may be combined in a single overcurrent device if the rating or setting of the device provides the running overcurrent protection specified in Section 4322.

*Section 4345, Overcurrent Devices—in Switch Conductor*—Overcurrent devices shall comply with the provisions of Section 2405.

*Section 4346, Capacity of Fuseholder*—If fuses are used for motor-branch-circuit overcurrent protection, the fuseholders shall not be of a smaller size than required to accommodate the fuses specified by Table 20; except that where the authority enforcing this code is satisfied that the conditions of maintenance and supervision provide that appropriate fuses for the starting characteristics of the motor will be continually available, fuseholders of smaller size than specified by Table 20 may be used.

*Section 4347, Rating of Circuit-Breaker*—Circuit-break-



# Mill Modernization and Hyster

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Trion, Georgia  
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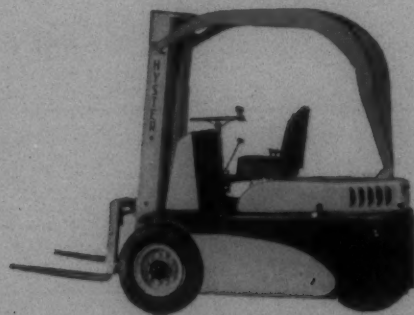
Hyster got the nod at Riegel's Trion (Ga.) Division because they had profit-making facts based on Hyster performance in other Riegel properties.

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ers for motor-branch-circuit protection shall have a continuous current rating of not less than 115 per cent of the full-load current ratings of the motors.

**Section 4348, Feeder Taps in Inaccessible Location**—If the location of a tap to the feeder conductors is not accessible, the motor-branch-circuit overcurrent device may be placed where it will be accessible, provided the conductors between the tap and the overcurrent device have the same current-carrying capacity as the feeder; or provided they have a current-carrying capacity of at least one-third that of the feeder and are not more than 25 feet long and are protected from mechanical injury.

**Section 4349, Selection or Setting of Protective Device**—If the values for branch circuit protective devices given in Table 26 or Table 27 do not correspond to the standard sizes or ratings of fuses, non-adjustable circuit-breakers, or thermal devices, or possible settings of adjustable circuit-breakers adequate to carry the load, the next higher size, rating or setting may be used.

**Section 4361, General**—The following provisions specify overcurrent devices intended to protect feeder conductors supplying motors against overcurrents due to short-circuits or grounds.

**Section 4362, Rating or Setting—Motor Load**—A feeder which supplies motors shall be provided with overcurrent protection which shall not be greater than the largest rating or setting of the branch-circuit protective device, for any motor of the group (based on Tables 26 and 27, Chapter 10), plus the sum of the full-load currents of the other motors of the group. If two or more motors of equal horsepower rating are the largest in the group, one of these motors should be considered as the largest for the above calculations. If two or more motors of a group must be started simultaneously, it may be necessary to install larger feeder conductors and correspondingly larger ratings or setting of feeder overcurrent protection. See Example No. 6, Chapter 10.

**Section 4363, Rating or Setting—Power and Light Loads**—If a feeder supplies a motor load, and in addition a lighting or a lighting and appliance load, the feeder overcurrent protective device may have a rating or setting sufficient to carry the lighting or the lighting and appliance load as determined in accordance with Articles 210 and 220, plus, for a single motor, the rating permitted by Section 4342; and, for two or more motors, the rating permitted by Section 4362.

Now, with all this under our belts, let's go back to the first part of this issue and pick up where we left off on our problem of the feeder design. I wanted you to read the above sections (4321 through 4363) in order for you to understand the various possibilities that arise in such work. Particularly, you should take in Section 4348, covering feeder taps in inaccessible places, and giving you the means of getting your job done in an approved manner.

Well, to get on, let's make a combination of those first two tabulations to determine the rating of the main fuses. First comes the fuse rating for the largest motor in the group, plus the sum of the full-load currents of the other motors in the group (Section 4362—above):

100 H.P.	_____	full load current	_____	200 amperes
75 H.P.	_____	full load current	_____	74 amperes
50 H.P.	_____	full load current	_____	50 amperes
40 H.P.	_____	full load current	_____	41 amperes

25 H.P.	_____	full load current	_____	26 amperes
15 H.P.	_____	full load current	_____	16 amperes
10 H.P.	_____	full load current	_____	11 amperes
7½ H.P.	_____	full load current	_____	9 amperes
5 H.P.	_____	full load current	_____	6 amperes
Total fuse rating				433 amperes

Now, we know that we need fuses rated at not less than 433 amperes for this group. We also know that fuses are not made in this odd rating, so, we go to the next nearest rating above 433 amperes, as we cannot go below that. We would find, by looking in our electrical supply catalog that the next rating is 450 amperes, which we therefore decide to use with a 600 ampere safety switch, still 600 volt class.

Likewise, we can go down the list of motors and, now that we have all the fuse ratings, pick out the switches for the various circuits:

100 H.P.	_____	switch rating	_____	200 amperes
75 H.P.	_____	switch rating	_____	200 amperes
50 H.P.	_____	switch rating	_____	100 amperes
40 H.P.	_____	switch rating	_____	100 amperes
25 H.P.	_____	switch rating	_____	60 amperes
15 H.P.	_____	switch rating	_____	60 amperes
10 H.P.	_____	switch rating	_____	30 amperes
7½ H.P.	_____	switch rating	_____	30 amperes
5 H.P.	_____	switch rating	_____	30 amperes

Next, and also of some importance is our branch circuit wire, which we'll work out on a similar basis, as for the 100 H. P. motor of the first tabulation above:

100 H.P.	98 amperes	× 125%	=	122.5 amperes	=	No. 1 V. C. Cable
75 H.P.	74 amperes	× 125%	=	92.5 amperes	=	No. 2 V. C. Cable
50 H.P.	50 amperes	× 125%	=	62.5 amperes	=	No. 6 V. C. Cable
40 H.P.	41 amperes	× 125%	=	51.3 amperes	=	No. 6 V. C. Cable
25 H.P.	26 amperes	× 125%	=	32.5 amperes	=	No. 10 V. C. Cable
15 H.P.	16 amperes	× 125%	=	20.0 amperes	=	No. 12 V. C. Cable
10 H.P.	11 amperes	× 125%	=	13.8 amperes	=	No. 12 V. C. Cable
7½ H.P.	9 amperes	× 125%	=	11.3 amperes	=	No. 12 V. C. Cable
5 H.P.	6 amperes	× 125%	=	7.5 amperes	=	No. 12 V. C. Cable

Since the 1947 code permits some changes in conduit sizes, some smaller than that previously allowed in earlier Codes. So, let's set these forth:

100 H.P.	_____	1½" Conduit
75 H.P.	_____	1½" Conduit
50 H.P.	_____	1" Conduit
40 H.P.	_____	1" Conduit
25 H.P.	_____	¾" Conduit
15 H.P.	_____	½" Conduit
10 H.P.	_____	½" Conduit
7½ H.P.	_____	½" Conduit
5 H.P.	_____	½" Conduit

## Power Plant Innovations To Be Shown

A long list of innovations designed to improve the performance of power plants is assured for the 18th National Exposition of Power and Mechanical Engineering, scheduled at Grand Central Palace, New York, Nov. 29 to Dec. 4 this year. This is made known through the filing of plans for their exhibits by a substantial number of manufacturers who have already contracted for space.

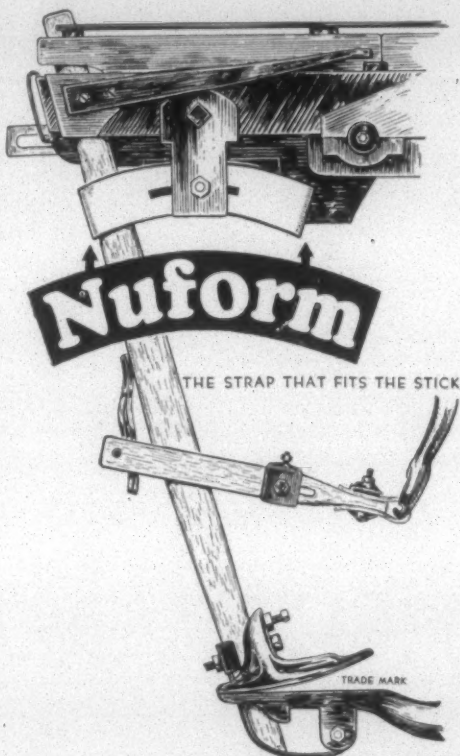
Among the new developments which visitors at the exposition will see is a 2,000 h.p. fluid drive said to be capable of pumping a million pounds of water an hour into a high-pressure boiler. Another exhibit will feature a type of steam turbine centrifugal marine boiler feed pump that is said to have made an almost clean sweep in tankers since its introduction. An improved method of removing tramp iron from coal will be demonstrated; while a number of engineering improvements have greatly improved the performance of a well-known spreader stoker. These include an electro hydraulic drive, alternate pusher coal feed and an "incremental" control valve for feed regulation.

In the long line of new instruments already assured for the exposition are a new pyrometer; a multiple recorder which traces four lines on a chart simultaneously; and several newly developed methods of automatic pH control. The exposition will be held during the same week as the annual sessions of the American Society of Mechanical Engineers.



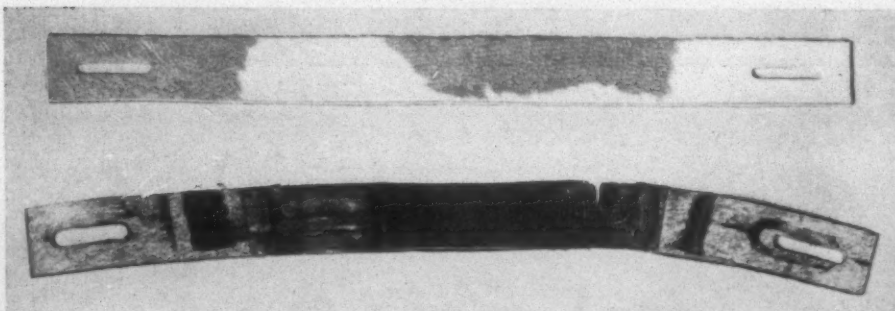
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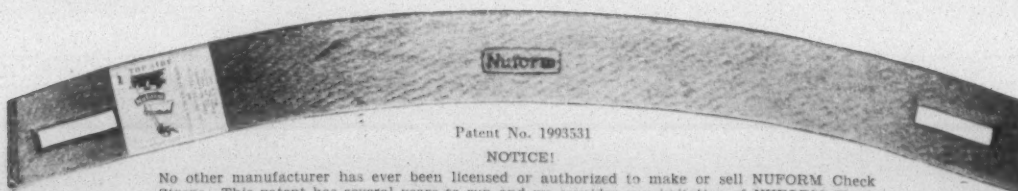


- Buy Nuform Check Straps for six months and you will never use the old type strap again.

- Even the best of the old style straps break at the top as shown in the illustration on the right.



- Now with better leather, better stretching and scientific designing, we offer Nuform—designed to do better work for a longer time, with fewer adjustments.



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No other manufacturer has ever been licensed or authorized to make or sell NUFORM Check Straps. This patent has several years to run and we consider any imitation of NUFORM Check Straps an infringement.

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# Take two add a high-speed and a special-type and the new Butterworth

RESULT: You have a complete 2-stage Butterworth Continuous Dyeing Range—for vat colors, sulphurs indigisols and naphthols. It's the *one* all-purpose range.

Compare the savings over jig work— $\frac{1}{3}$  less floor space, 40% reduction in chemical costs, yardage per man hour of labor increased up to 50%. Color costs are equal or up to 25% less on certain classes of goods.

The Butterworth pad steam range will cut your costs from 10% to 35% *even if you are doing conventional continuous reduced or pigment work*. And you will get full jig money value and fastness with shading controlled throughout the run.

The complete Butterworth pad steam range requires a space only 110x10 feet to run 6,000 yards an hour. Goods enter a 2-roll padder in which color is applied in pigment form, followed by drying on a special-type hot flue dryer. Goods are then impregnated with chemicals on a 3-roll padder and enter a steamer. After steaming, goods pass through a water seal and squeeze rolls and are washed in a high-speed compartment washer.

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# Bleaching, Dyeing & Finishing

## Colonial Mills' New Clarksville Plant

**S**PRAWLING on a pleasant tract of land overlooking a sink in the rocky Roanoke River near Clarksville, Va., is a new, modernistic building which has been glowingly described as the most modern and largest filament rayon finishing plant in the South. In clean-cut letters on one of the expansive, windowless, brick walls is the name of this magnificent plant—"Colonial Mills, Inc., Clarksville Finishing Division."

That name "Colonial" is one which is rapidly becoming more and more familiar to the South; its characteristics are synonymous with those of its progressive president, Karl Robbins of New York. Colonial's new finishing plant was erected in Virginia's clay by C. M. Guest & Sons, textile mill builders of Anderson, S. C., and Greensboro, N. C. Even before the Clarksville plant was completed Karl Robbins called on the Guest organization to move south to Aberdeen, N. C., to build the huge spun rayon weaving plant planned for that community. Bibberstein and Bowles of Charlotte, N. C., did the engineering for both plants.

Into Colonial's Clarksville plant has gone the architectural and construction experience of decades. It is small wonder, then, that the plant has emerged as the South's finest and most up-to-date dyeing and finishing plant, capable of production efficiency once thought impossible.

The plant proper at Clarksville consists of three buildings—the dyeing and finishing plant, the steam plant, and the filter plant. All of these are of sturdy brick-steel construction. The over-all floor space in these buildings is over

130,000 square feet. This will soon be increased with a new addition now under construction.

The principal structure of the three is, of course, the dyeing and finishing plant which will process gray goods received from other segments of the Colonial system. It embraces more than 126,000 square feet of space on one floor, is artificially lighted, and has forced filtered ventilation.

About 40,000 square feet of the floor in the dyeing and finishing plant are paved with a special acid-resisting brick which protects the floor from dyestuffs. This type of pavement is both attractive and serviceable. The roof of the main building is of the flat built-up type on treated wood planks which are three inches thick. It has a vapor seal, two inches of cork insulation, and a tar, felt, and gravel roofing. Long-span roof trusses have eliminated the necessity for columns within the building.

Perhaps the outstanding feature of the dyeing and finishing plant is the drainage system in the dyehouse, which keeps the room dry and reduces vapors to a minimum. To get these results a box culvert large enough for a man to walk through upright was constructed under the full length of the plant. Waste water from the dyebecks and jigs falls into this conduit with such rapidity that it has little time to vaporize. A further check on vapors is accomplished by a vapor absorption and ventilation system which permits close humidity control. All of the ducts are made of stainless steel.

Located on the front of the main plant structure are



Magnificent new dyeing and finishing plant of Colonial Mills at Clarksville, Va. The new plant was constructed by C. M. Guest and Sons, textile mill builders of Anderson, S. C., and Greensboro, N. C., with engineering by Bibberstein and Bowles, of Charlotte, N. C.

## BLEACHING, DYEING & FINISHING

modern offices with conveniences to rival those found in the finest office buildings. The offices have acoustical tile ceilings, recessed fluorescent lighting, asphalt tile floors, and are air conditioned and refrigerated.

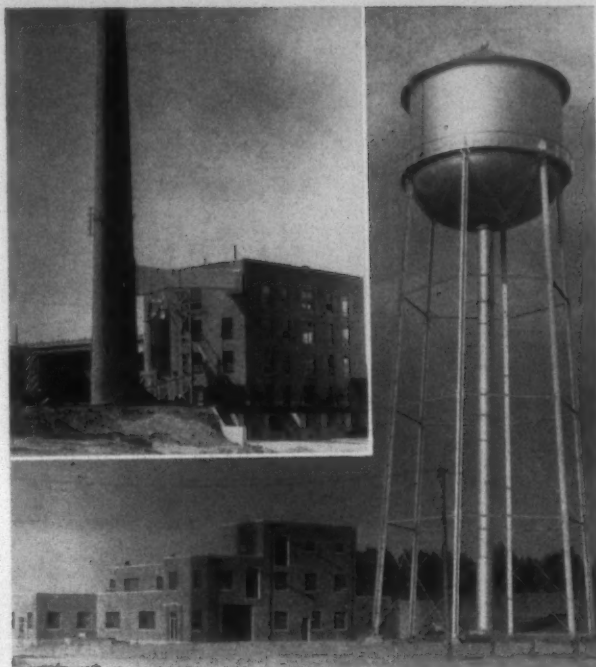
Steam for the operation of the plant is generated in a five-story building north of the dyeing and finishing plant. The steam plant is equipped with three Keeler boilers, two of 500-horsepower and one of 750-horsepower. These boilers are coal-fired but may be readily converted to oil by the use of standby equipment. The dust-free ash removal system which has been built into the power plant is considered superior to most removal systems. Ashes are removed from the hoppers by a vacuum system and carried through acid and wear resisting pipes to an elevated storage silo. The ashes are then dumped into trucks through a scuttle in the bottom of the silo.



Wet finishing room at the new Colonial plant, showing floor of acid resisting brick.

One of the determining factors in locating the new Colonial plant was the proximity of the Roanoke River which can supply a minimum flow of 700 million gallons of water a day. Water pumped from the river supplies the filtering plant, which can process  $2\frac{1}{2}$  million gallons of water daily. Once the water has been filtered it is stored in either the 215,000-gallon elevated tank or a clear well reservoir of 250,000 gallons capacity.

After water has been used in the dyeing and finishing process, it is returned to the waste disposal plant where all chemicals are removed before it is returned to the river. This "purification" system makes the Clarksville plant one



Filter plant at Clarksville; inset shows steam plant.

of the first to comply with the new "end pollution" statute enacted by the Virginia legislature.

In addition to the mill proper at Clarksville, C. M. Guest and Sons constructed 12 modern homes for use by executive personnel. These houses are all architecturally different, yet harmonious. This creates an esthetic effect seldom seen in the monotonous rows of identical houses usually constructed for textile personnel. The executive houses are on large lots in a wooded section. No houses are required for plant workers as the great majority of them live on the farms which surround the plant.

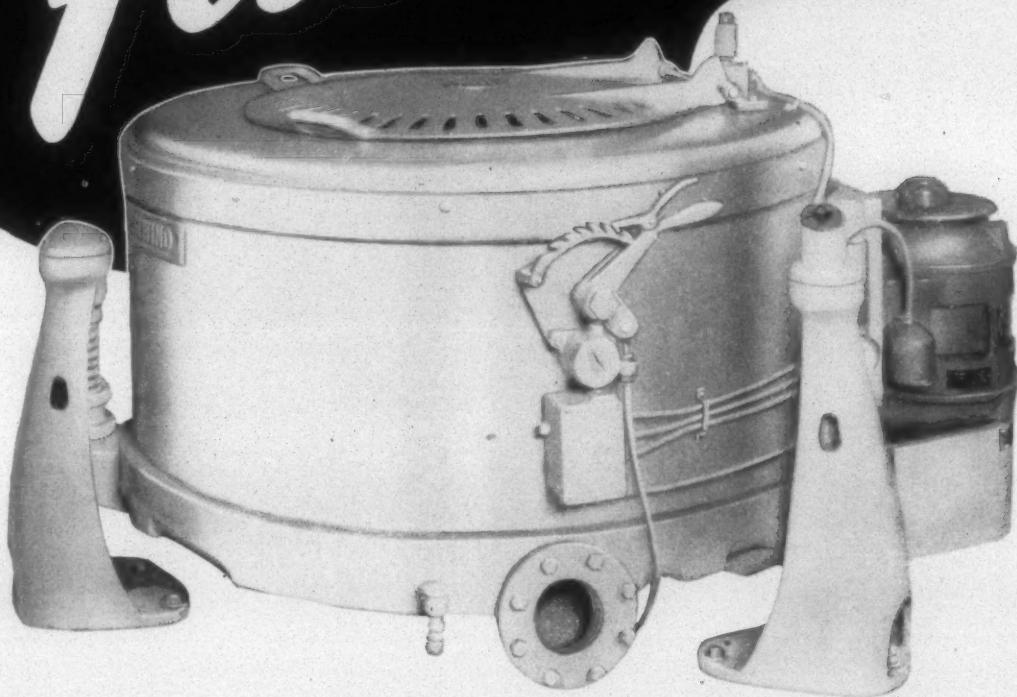
Even amidst the turmoil and expense of constructing a new mill, Colonial's Karl Robbins has not overlooked the recreational and health needs of his Clarksville employees. An employee recreational area covering about 300 acres of land is now under development. The late Donald Ross, one of the nation's leading golf course designers, was engaged by Colonial to lay out 18 holes for those who enjoy the sport. Nine of the holes have already been completed and the other nine are on the way. All weather tennis courts and fields for other forms of recreation have also been hewn from the once thickly wooded rural area.

Not only has Colonial provided these fine recreational facilities for its own employees but it has also made them



Dry finishing room at the Clarksville plant.

# Fletcher



## WHIRLWIND EXTRACTORS

Widely used and recommended . . . throughout the industry . . . for its ruggedness and dependability, Fletcher "WHIRLWIND"—the only extractor with automatic hydraulic brake and "finger tip" control. This most modern type of high-speed extractor has large capacity, unusual self-balancing, all-around performance, ready accessibility around the basket and requires no heavy foundation.

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When at the Southern Textile Exposition in Greenville . . . be sure to stop in and see the Fletcher Extractor Exhibit. We will be located in Section # 124.

# FLETCHER WORKS

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available to all citizens of Clarksville. In this manner, Colonial has not only provided additional employment for the community but, in addition, has contributed to its welfare and happiness.

C. M. Guest and Sons also renovated a century-old mansion to serve as a guest house for out-of-town persons who visit the plant. After complete renovation, the guest house was tastefully furnished with antiques by a well-known interior decorator.

But that was not all. Nearing completion nearby is a modern club house complete with locker rooms, golf shop, and all the niceties of a country club.

Certainly Colonial Mills, with the help of C. M. Guest and Sons, the builders, and Biberstein and Bowles, the engineers, have fashioned a truly complete industrial community on the rolling Virginia countryside. The company has not only provided good working conditions for its employees but also good playing conditions. Colonial at Clarksville has embarked upon what appears to be a new era, a better era of textile production and employee relations.

## Dyeing Past And Present (II)

By FRANCIS TRIPP, B. Sc., M. S., Ch. E., Head of Chemistry Department, New Bedford (Mass.) Textile Institute

THE first synthetic dyes to be introduced to the market were the basic dyes. Mauve, a basic dyestuff discovered by Perkin in 1856, was the first coal-tar dyestuff to be brought on the market. Fuchsine (magenta) was introduced to the dyers in 1859 and was quickly followed by other basic dyes. The basic dyes were so named because of their basic character which is derived from amido groups.

Wool and silk can be dyed with basic dyes without the aid of a mordant. Cotton must be treated with an acid such as tannic acid before it can be satisfactorily dyed. The basic dyes are marketed in the form of salts, usually the hydrochloride. With few exceptions the basic dyes are soluble in water. However the best results are obtained by using water below 180° F. to which a little acetic acid has been added. Basic dyes form lakes with acid salts such as lime, soaps, as well as with tannic acid. Reducing agents decolorize basic dyes and usually the color is restored by gentle oxidation. The dyeings obtained with basic dyes are bright and pure, but are not very fast to light or washing except in the case of Methylene Blue and the Indulines. Some basic dyes such as Magenta are faster on wool than on cotton, others as Safranine and Methylene Blue are faster on cotton. Owing to their cheapness and great coloring power, they were at one time used to a large extent on cotton.

In the dyeing of cotton, the material is usually first treated just below the boiling point with tannic acid solution containing a weight equal to the weight of dye to be used. The tannic acid is next fixed on the fiber by the use of metals such as aluminum, tin, and iron. Tartar emetic (potassium antimony tartrate) is the best fixative. The flourides and lactates of antimony are also used in cold solutions. Subsequently the cotton must be well rinsed or "loose" dyeings will be obtained.

Turkey red oil or soap were oftentimes used as mordants. They produced very bright results especially when used with Rhodamine, but were not as fast as if dyed on the tannin-antimony mordant. The substantive dyes may be used as mordants for basic dyes. All basic dyeings are faster if treated with tartar emetic after dyeing regardless of the fixing agent used after the tannic acid treatment. A few Indulines yield very fast shades i. dyed direct and treated after dyeing with a dilute solution of bichromate of potash.

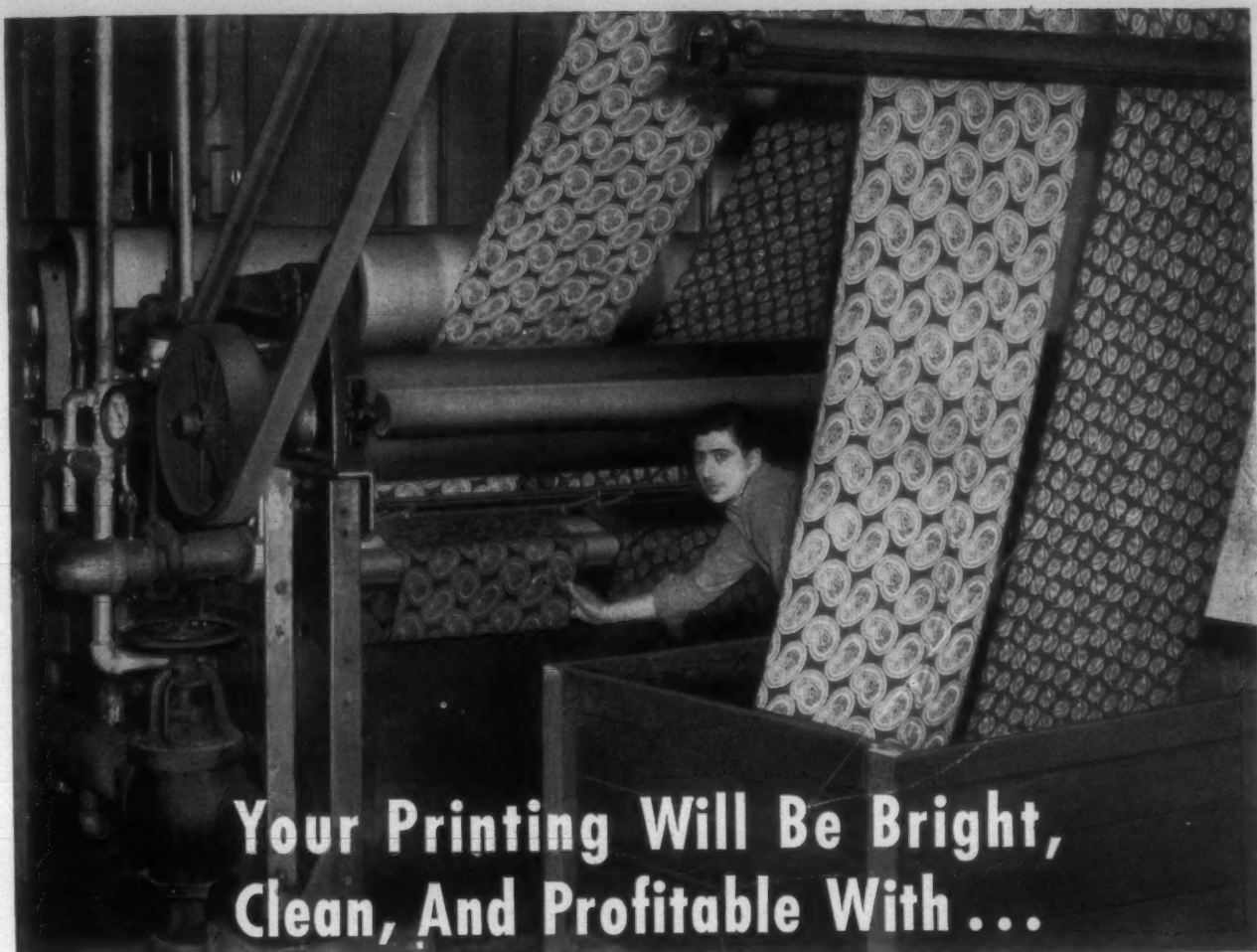
By using enough acetic acid to hold all the dye in solution the basic dyes may be mordanted with tannic acid and dyed in one operation, the acid being driven off as vapor.

Owing to the great affinity wool has for basic dyes it is difficult to dye them very satisfactorily. They are usually dyed upon wool from an acid bath. Upon silk they are usually dyed from a weak acid bath or an acidulated "boiled off liquor" bath. After dyeing, the silk must be thoroughly washed, and may be brightened by treatment with tartaric or oxalic acids. The wash fastness of silk dyed with basic dyes can be materially increased by an after treatment with tannic acid and antimony. In general, the fastness of basic dyes on wool and silk is rather poor with regard to light, washing or water.

The basic dyes vary considerably in their substantive dyeing properties as well as in their fastness. There is, however, a distinct group of these dyes which dye cotton deep shades direct, and can subsequently be fixed with tannic acid and antimony. Other basic dyes have but weakly developed basic properties, and also weak acid properties. The Rhodamines belong to this class and are noted for their bright shades.

Several synthetic mordants appeared on the market during the '20s, notably the Katanols. These synthetic mordants for basic dyestuffs eliminated the usual step of "fixing," since in themselves they possessed a substantive affinity for certain vegetable fibers. However they could not be used with all of the basic dyes. Albatex O (Ciba) is a good mordant for basic dyes that requires no fixing salts.

At the present time, because of their lack of fastness qualities to washing and light, together with the tendency to crock, basic dyes are of little importance in the dyeing of textiles in this country. However, they are still the brightest of the dyestuffs and are employed to a limited extent where bright shades are of primary importance and permanency is not a factor. At one time the basic dyestuffs were used to a considerable extent for topping direct dyes and sulphur dyestuffs in order to increase the brightness of the shades. They are still employed to a considerable extent in certain of the South American countries for the dyeing of yarns and dress material. The basic dyes are also employed in the manufacture of color lakes for lithographic inks and print-



**Your Printing Will Be Bright,  
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## ORATOL L-48

The problem in the print wash operation is to remove excess pigment and paste constituents, *quickly* . . . to brighten and liven colors . . . with no waste of time or added expense.

Oratol L-48 has high foaming, emulsifying, and wetting properties . . . requisites in the rinsing process. Its powerful detergency and rapid scouring action greatly reduces any tendency toward bleeding. Oratol L-48 is stable in hard water and performs equally well on all types of fibres — under acid or alkaline conditions.

### What this means to you:

- |                              |  |
|------------------------------|--|
| 1. Quick, effective rinsing  | 3. Fewer rejects                       |
| 2. Brighter, livelier shades | 4. Greater output . . . greater profit |

Oratol L-48 has other important advantages; only a very small quantity is required when used alone as a print wash. If used in conjunction with soap, it increases the stability of the soap and prevents formation of soap curds. Oratol requires less water, rinses rapidly, and leaves the fabric with improved hand.

Ask our representative for full details about economical Oratol L-48. Or write today for technical data and your generous free sample for testing.

*A Feature  
to Remember!*

**ORATOL L-48  
Gives Brighter  
Cleaner Shades**

### Plants, Branches and Warehouses

Plants: Passaic, Carlstadt, N. J.; Los Angeles, Calif.  
Warehouses: Providence, R. I.; Philadelphia, Pa.;  
Utica, N. Y.; Chicago, Ill.; Greenville, S. C.;  
Chattanooga, Knoxville, Tenn.



**JACQUES WOLF & CO.**  
*Chemicals* PASSAIC, N. J.

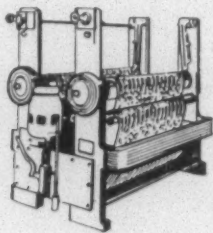
ing inks. They are also employed in the production of carbon paper and typewriter ribbons and in the leather industry.

### Direct Dyes

In 1884 Boettiger produced Congo Red, the first substantive dye. A substantive dye may be classified as a dye that will dye vegetable fibers without the aid of a mordant. Substantive dyes are also classified as direct dyes. The introduction of Congo Red and the subsequent manufacture of other direct dyes proved to be an outstanding advancement in the art of dyeing. They soon were in wide use because of their ease of application, although their fastness properties at that time left much to be desired.

Benzopurpurine 4B later replaced Congo Red and is still employed to a considerable extent. With the passing of the years, chemical research has made possible a large variety of direct dyestuffs with widely divergent properties of fastness. Today we have direct dyes that possess excellent light fastness, such as the Chlorantine Fast colors. The light fastness of some direct dyestuffs can be improved by an aftertreatment with copper sulphate. The wash fastness of certain direct dyes may be increased by an aftertreatment with sodium bichromate while still other direct dyes are given increased wash fastness by aftertreatment with formaldehyde. Benzo copper colors have been employed which have given good fastness to light and washing.

Although most of the direct dyestuffs are satisfactorily applicable only to rayon and cotton a few have the property of being applicable to wool and silk as well. The light fastness of direct dyes, as a class, varies from a rating of very poor to excellent. Similarly, their ability to withstand washing and laundering varies very considerably. Their individuality therefore in fastness properties makes it mandatory that a good dyer be possessed with considerable knowledge of the direct dyestuffs and the material to which they are to be applied, so that the best selection of dye may be secured for materials that are to be used for specialized purposes, such as draperies or upholstery.



Chemically speaking, most of the direct dyes are salts of sulphonic acid or carboxylic acid. They are soluble in water and dissolved by pasting the dyestuff with cold water followed by the addition of hot or boiling water. Since most of the dyes do not exhaust readily during the dyeing procedure a solution of sodium chloride or sodium sulphate (Glauber's Salt) is added to the dyebath at intervals in order to produce the necessary exhaustion.

In addition to the dyestuff and salt, the dyebath of the present-day dyer also contains other assistants. Many types

of synthetic wetting and penetrating agents are commonly employed. The 1946 *Yearbook of the American Association of Textile Chemists and Colorists* lists dozens of commercial products described as being efficient in providing increased penetration, leveling and fixing, such as sulfated castor oil and sulfated fatty alcohols. The experienced dyer is also conscious of dyebath temperatures. Similar shades cannot be produced from dyebaths containing identical amounts of dyestuffs, salt and other assistants if the temperature of the dye liquor in the separate baths are widely divergent. In some cases maximum penetration occurs near the boil while in other cases lower temperatures are satisfactory. It is common custom to give the dyed material a rinse following dyeing, sometimes with the addition of salt to the rinse water.

### Sulphur Dyes

The first known sulphur dyestuff was prepared by Croissant and Bretonniere in 1873 by fusing organic compounds such as bran and sawdust with sodium sulphide. This dyestuff (Cachou de Laval) remained the sole representative of its class until 1893 when Vidal black was introduced by a French chemist, Raymond Vidal, who prepared it by fusing sulphur and sodium sulphide with *p*-aminophenol. Within a few years following the introduction of Vidal black to the market, rapid advancements were made in the production of sulphur dyestuffs and such shades as blues, reds, yellows and oranges were introduced.

The sulphur dyestuffs soon gained considerable popularity because of their increased fastness as compared with the direct dyes. Sulphur black is especially famous for its light fastness and is presently manufactured in large quantities. The dyes are very fast to alkali, acids, light and water, but as a class do not withstand the action of bleaching solution. However, it should be remembered that considerable variations in light fastness exists within the group. They are commonly applicable to cotton and rayon and several special processes have been patented for applying them to animal fibers.

The sulphur dyestuffs are insoluble in water and are made soluble by pasting them with soda ash and hot water followed by the addition of sodium sulphide. The mixture is then boiled for a period of about 15 minutes in order to bring about the proper solution of the dyestuff.

The quantities of soda ash and sodium sulphide used in conjunction with the sulphur dyes is variable for specific dyes. In many cases about one-half of the amount of soda ash as dyestuff is used with a maximum of about six per cent on the weight of the goods while the ratio of sodium sulphide (fused) can vary from one-half to four in comparison to the quantity of the dyestuff employed. The dyes are solubilized and dyed at temperatures from 160° to 200° F. for about 45 minutes with the addition of salt to the dyebath. The above example illustrates the method for applying a few representative sulphur dyestuffs to cotton and the above mentioned procedure may vary considerably in many specialized instances.

Materials dyed with sulphur dyes are rinsed thoroughly after the dyeing operation and generally given an additional treatment to produce further oxidation of the color. A commonly employed aftertreatment is to treat the dyed material in a bath containing one to three per cent copper sul-



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The Sandoz policy of "thinking ahead with textiles" has led to developments in dyestuffs of great significance to both wearer and dyer. Among these developments — promising "service fastness" to the ultimate user and operating efficiencies to the mill — are special dyestuffs for rayon which must withstand anti-crease treatments without any loss in shade or fastness. Those include the well-known:

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 PYRAZOL FAST BLUE 2GLN  
 PYRAZOL FAST BROWN BRL  
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 and the latest blues: PYRAZOL FAST  
 BLUE GUL, RUL and LUL

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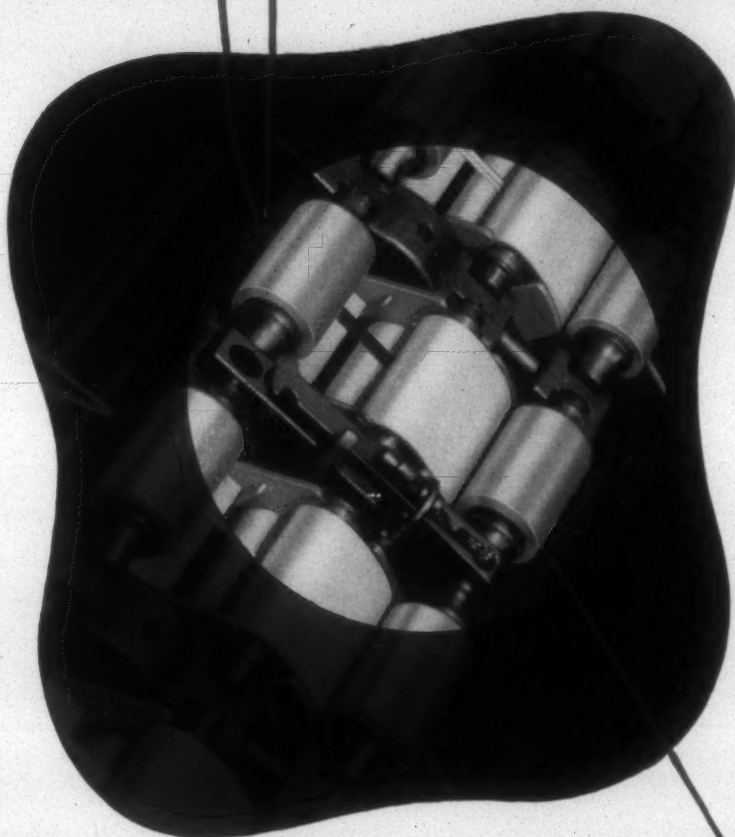
*thinks ahead with textiles*

**S**

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**Dayco Aprons"**



...another reason leading mill men insist on Dayco Aprons

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If you aren't running DAYCOS now, it will pay to have one of our textile machine engineers call on you. Just drop a card to *The Dayton Rubber Company, Textile Division, Main Sales Office, Woodside Building, Greenville, S. C.*

#### Advantages of Running DAYCOS on Your Frames

- Greater coefficient of friction
- No inside rib
- Nondirectional
- Will handle cotton and synthetics
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- Won't pick up lint
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# Dayton Rubber

phate and three to five per cent acetic acid for a period of 20 minutes at a temperature of 140° F. This treatment increases the light fastness and wash fastness properties of many of the sulphur dyestuffs but is not recommended for sulphur blacks. Often shades of blues and greens are brightened by an aftertreatment in a bath containing about one per cent sodium perborate at a temperature of 120° F. The aftertreatment oftentimes produces quite an alteration in the shade of the dyeings and in some cases it is not advisable to aftertreat dyed material.

Bronziness of the dyed shade is one of the common complaints concerning dyeings. This is produced by an oxidation which in some cases is caused by a deficiency of sodium sulphide in the dyebath or by exposure of the material to the air during the course of the dyeing operation. Several synthetic products such as Lyofix are offered the textile trade as bronziness preventatives.

Many of the shades produced with sulphur dyes, especially the blacks and deep shades, oftentimes change chemically on exposure to the air with a resultant formation of acid which causes a tendering of the dyed material. Therefore it is often advisable to recommend a final treatment of the dyed material with an alkali such as soda preferably in the last rinse water. In case of sulphur blacks they are often treated with sodium acetate as an aftertreatment to improve their storage qualities. Another notable characteristic of the sulphur dyes is their inability to exhaust even when large amounts of salt are employed. Therefore, in order to save money it is oftentimes customary to

save the dye liquor and replenish by the addition of smaller amounts of dyestuff and salt during the dyeing of subsequent lots of material.

The equipment employed in the dyeing of sulphur colors should be made of stainless steel, wood or iron. Copper, brass or bronze should never be used, since they are attacked by the sodium sulphide solution.

Sulphur colors are sometimes topped with basic dyes in order to beautify the shade. It is essential that the material be thoroughly washed after dyeing with the sulphur dyes. The topping procedure may be carried out in either a neutral bath or a solution to which a small amount of acetic acid has been added. The dyeing is commenced cold and the dye liquor gradually raised to a temperature of 100°-120° F.

One of the common faults in the jig dyeing of sulphur colors is the tendency of the color to become over oxidized along the selvages. In order to overcome this difficulty, experienced dyers have found that the use of a little sodium hydroxide and glucose in place of a portion of the sodium sulphide maintained the proper reduction of the color until the dyeing operation had been completed satisfactorily.

Sulphur dyes are presently sold under such trade names as Acco, Amalthion, Calcogene, Eclipse, Indo Carbon, Katigen, Pyrogene, Sulfindone, Sulfogene, Sulfur and Thional. Sulphur colors are also available in solutions, such as the So-Dye-Sul Liquid colors put out by the Southern Dyestuff Corp. Since these colors do not have to be dissolved before using, considerable time and trouble may be eliminated by their use. They may be purchased in drums and are ready for use after weighing and diluting.

Promotions, Resignations, Honors,  
Transfers, Appointments, Elections,  
Civic and Associational Activities

## PERSONAL NEWS

John A. Howard, assistant secretary of J. P. Stevens & Co., Inc., and associated with Republic Cotton Mills at Great Falls, S. C., for 38 years, a Stevens division, plans to retire from active duty with the organization effective Nov. 1. . . . A. H. Dallas has been named superintendent of Republic Cotton Mills Plant No. 1, succeeding George M. Wright, Jr., who resigned to become superintendent at Gaffney (S. C.) Mfg. Co. . . . Allen Dameron has become resident engineer Plant No. 3 for Republic.

Charles C. Hertwig, president of Bibb Mfg. Co., Macon, Ga., has been elected a member of the board of directors of Citizens and Southern National Bank at Savannah, Ga. . . . George P. Swift, president of Muscogee Mfg. Co., Columbus, Ga., has been named chairman of the board of directors of Fourth National Bank of Columbus.

W. Gordon McCabe, Jr., has joined J. P. Stevens & Co., Inc., as head of the new

cotton department. He will direct the purchasing of raw cotton for all mills in the Stevens chain that use cotton.

Fred Sizemore has been appointed assistant foreman of the bedspread dyeing department at Fieldcrest Mills, Spray, N. C.

William J. Cleveland, assistant general superintendent of manufacturing for Textiles, Inc., Gastonia, N. C., has been named superintendent of the company's Victory and Winget plants. . . . Mr. Cleveland replaces H. G. Winget, who requested relief from active duty because of ill health but who continues with the firm in an advisory capacity.

J. Spencer Love, chairman of the board of Burlington Mills Corp., Greensboro, N. C., has been named by Paul G. Hoffman, Economic Co-operation Administrator, as one of the American members to the Anglo-American Council on Productivity. The

council is expected to hold its first meeting in London during the week of Oct. 25.

Clarence W. Cashion, a veteran of more than 30 years in the textile field, has been appointed superintendent of the plant of Delaine Worsted Mills, division of Associated Spinners, Inc., at Gastonia, N. C.

George Groh, who has been in charge of development at Colonial Mills the past 2½ years, has resigned from that post. He said his future plans were not yet determined.

F. C. Mosteller has resigned as superintendent of Rhyne-Houser Mfg. Co., Cherryville, N. C., to accept a position at York, S. C. He has been replaced at Rhyne-Houser by E. B. Blackstock, formerly assistant manager of Clover (S. C.) Spinning Mills Co.

Ted Broyles and L. W. Coleman have been named overseers of carding and spinning at the Lumberton and Mansfield plants,

## PERSONAL NEWS

respectively, of Mansfield Mills, Inc., at Lumberton, N. C.

Walter McGaha of Greenville, S. C., is now superintendent of the weaving division of the Rockingham, N. C., plant of Beaunit Mills, Inc.

J. D. Sheppard, formerly connected with Carter Fabrics Corp., Greensboro, N. C., is now superintendent of Hannah-Pickett Worsted Mills at Rockingham, N. C.

Robert F. Brown has been named chemical sales manager of Emery Industries, Inc., Cincinnati, Ohio, and will handle all Emery domestic sales of fatty acids, fatty acid derivatives and Twitchell products.

Henry Lineberger of Belmont, N. C., has been elected president of Rowan Cotton Mills, Salisbury, N. C., succeeding his father, the late A. C. Lineberger. John R. Crawford was elevated from assistant treasurer to the vice-presidency and Camden Blades of Elizabeth City, N. C., was elected to the board of directors. All other officers and directors were re-elected.



John D. Rollins, formerly with Borden Mills, Inc., Burlington Mills Corp., and Dan River Mills in various positions, has been appointed sales engineer for the American MonoRail Co. at the firm's Charlotte, N. C., office. Mr. Rol-

lins is a graduate of North Carolina State College with special training in textile methods engineering.

W. O. Reed has resigned as overseer of spinning at Randolph Mills, Inc., Franklinville, N. C., to accept the position of general overseer of spinning and preparation at Pomona Mfg. Co., Greensboro, N. C.

Dr. Carlyle G. Caldwell, a native of Little Rock, Ark., has been appointed research director of National Starch Products, Inc., New York. Dr. Caldwell has been a member of the research staff since 1940.

Frank Vardeman has resigned as head of the cotton department of the Porterdale, Ga., plant of Bibb Mfg. Co. L. H. Smith, of the Bibb plant at Columbus, Ga., will succeed Mr. Vardeman at Porterdale and Roscoe Reynolds, who has been assistant to Mr. Smith, will be placed in charge of the cotton department at Columbus.

R. S. Small, president of Haynsworth Mill, Anderson, S. C., has been named director of Anderson Industrial Buildings, Inc. The community corporation owns the new Haynsworth Mill building.

Harry W. Bagley, former woolen designer and mill superintendent, has joined U S Bobbin & Shuttle Co., Lawrence, Mass., as a sales representative in the Pennsylvania, New York and New Jersey territory.

Alvin S. Davis, formerly president of Callaway Educational Association, has been appointed director of industrial relations for Callaway Mills Co., LaGrange, Ga. Edward L. Parker was elected president of the edu-

cational association to succeed Mr. Davis, who was named chairman of the board.

T. Scott Roberts has been made chairman of the board of Adelaide Mills, Anniston, Ala., after having served as president of the concern for 30 years. J. G. H. Morris, treasurer, succeeds Mr. Roberts as president. T. P. Roberts succeeds Mr. Morris as treasurer, in addition to his present position as manager.

Dr. Clarence W. Winchell, formerly chief of the Bureau of Standards of New Jersey, has joined the staff of the United States Testing Co., Inc., Hoboken, N. J. He will have charge of preparing specifications and standardization for official purchasing commissions and institutions, developing sources of materials and testing these materials for specific uses.

Dr. Carl F. Prutton, formerly head of the department of chemistry and chemical engineering at Case School of Applied Science, has joined Mathieson Chemical Corp. as director of research.

Lorne F. Lavery, formerly manager of the Detroit office of the New Departure Division of General Motors Corp., has been named assistant general sales manager at Bristol, Conn.

Donald Comer, chairman of the board of Avondale Mills, Sylacauga, Ala., has announced the selection of Richard O. Steele of Charlotte, N. C., by the Textile Research Institute, as the recipient of a research fellowship established by Avondale Mills. Mr. Steele is at present one of the outstanding men in the Princeton graduate school. Because of the excellence of his research on cellulose, the institute decided to grant him a post-doctoral fellowship for further research on cellulose in its laboratory. The Avondale Mills Fellowship was established several years ago.

Morton Church, formerly with American Yarn & Processing Co., Mt. Holly, N. C., has accepted a position as sales representative in North Carolina for Wilkin & Matthews of Charlotte, manufacturers agents for several lines of materials handling equipment and other mill supplies.



Shown at left is Robert V. May, who recently was appointed technical service representative for Southern Sizing Co. of Atlanta, Ga. Mr. May will make his headquarters at Greenville, S. C.

Rufus Lattimer has resigned as night superintendent of Carolina Mills at Dillon, S. C., to become overseer of spinning for Carolinian Mills, High Shoals, N. C. At High Shoals he succeeds George W. Ray, resigned.

Fred L. Hunt has resigned as overseer of spinning at Stonewall (Miss.) Cotton Mills, Inc., to accept the position as manager and superintendent of Kingston (Ga.) Spinning Mills.

T. G. Stroud, formerly overseer of carding and spinning at the Apache Plant of

Victor-Monaghan Co., Arlington, S. C., is now superintendent of carding at Borden Mills, Inc., Kingsport, Tenn. J. E. Brown, formerly with Monarch Mills at Union, S. C., is now superintendent of spinning for Borden Mills. L. W. Moore, formerly of Chester, S. C., is now overseer of weaving for Borden.



Hillary Robinette, Jr., left, a native Philadelphian and graduate in chemistry from Temple University, has been named research director of Amalgamated Chemical Corp., Philadelphia, where he will head up an expanded consulting

service for the textile industry. Mr. Robinette has been with Publicker Industries, Inc., Philadelphia, in the new products division since his release from active military service in December, 1945. Prior to the war he was in the sales promotion division of Commercial Solvents Corp., Terre Haute, Ind., working on textile, paper and leather goods. He was president of W. H. & F. Jordan Mfg. Co., Philadelphia, textile chemicals, from 1939-40 and before that spent six years in the research department of Rohm & Haas, Philadelphia, working in textile chemicals.

Dr. George H. Coleman, dean of the Institute of Textile Technology at Charlottesville, Va., has been awarded the Certificate of Appreciation by representatives of the Army and Navy for "outstanding contribution to the work of the Office of Scientific Research and Development during World War II." The presentation was made during a ceremony at Charlottesville Sept. 16. Dean Coleman, a nationally known chemist and educator and a Guggenheim Fellow in France and Germany in 1928 and 1929, directed a group of scientists during the war under the Office of Scientific Research and Development Program in two general fields. One of these involved the synthesis and determination of properties of chemical warfare gases, and the other was concerned with the synthesis of anti-malarial compounds.

Richard C. King will become head of the industrial engineering department of Cone Mills Corp., Greensboro, N. C., Jan. 1. Mr. King has been doing work at Cone Mills as a member of James F. Downey and Staff, consulting engineering firm of White Plains, N. Y.

R. G. Stewart has been promoted from overseer of spinning for Acme Spinning Co., Belmont, N. C., to superintendent of Linford Mills, Inc., Belmont.

L. H. Lowman is now assistant superintendent of the new Mill No. 2 of J. & J. Spinning Co., Maiden, N. C.

Lake Hugh Jameson, formerly associated with Abbeville (S. C.) Mills, has been appointed to the faculty of the school of textiles at Clemson College, Clemson, S. C. Mr. Jameson will be instructor of textiles. . . . Everett V. Olsen of North Chelmsford, Mass., has been appointed to the newly created post of assistant to the president at Lowell (Mass.) Textile Institute. Mr. Olsen

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# CLINTON

## STARCHES

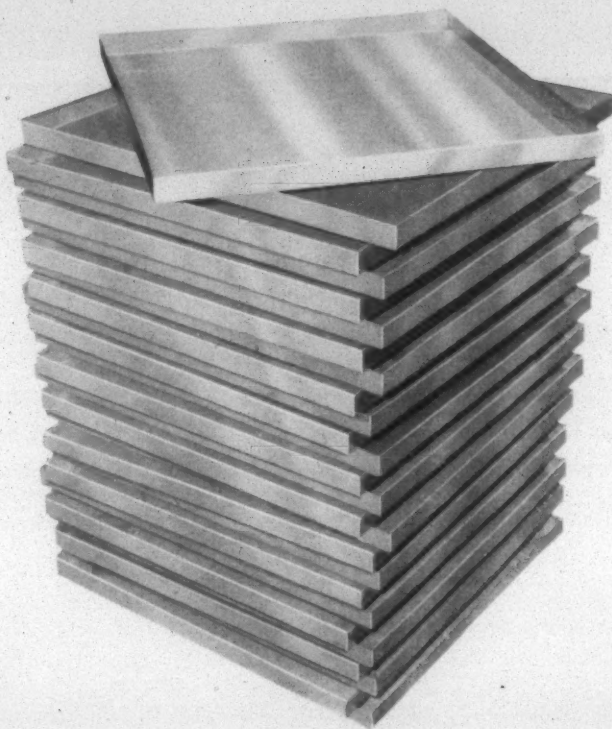
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**W**HETHER it's watertight and flanged shelf dryer pans (as illustrated) or tanks and vats of any size or capacity . . . specify *Stainless Steel*. With non-corrosive stainless steel there is no longer any possibility of wet materials becoming contaminated and colors will always run true in successive runs. Lower upkeep, repairs and fewer rejections mean material savings.

*Truitt's* engineering service in the fabrication of carbon and stainless steel is available to the textile, chemical, pulp and other industries. Should your need be tanks, vats or other equipment, remember . . . *Truitt*, one of the South's larger fabricators, will gladly figure your job, without cost or obligation.

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Washing Tanks • Steam Drums • Storage Tanks for Acids and Alkalis • Mechanical Agitators  
• Separators • Stainless Steel Trucks • And Many Other Stainless Steel Products.

## PERSONAL NEWS

will assist the president in the supervision of non-academic personnel and the handling of many of the operational details of the institute's expanding program.



A. S. Cooley, left, for years widely known as Charlotte, N. C., manager for American Aniline Products, Inc., was the guest of honor Aug. 19 at a testimonial dinner which marked his retirement from the organization.

The feature of the evening was the presentation to Mr. Cooley by G. L. Armour, executive vice-president of the firm, of an engraved gold wrist watch as "testimonial of his many years of loyal and faithful service." The dinner was arranged by Mr. Cooley's associates and was attended by members of the company's Southern sales staff as well as representatives from the executive offices in New York City. . . . Mr. Cooley has been succeeded as Charlotte branch manager by J. Harvey Orr, pictured at left below, for 15 years an A. A. P. salesman in the area, who will supervise the company's sales efforts in Virginia, North and South Carolina, Alabama, Georgia and Tennessee. . . . Carroll F. Martin, Jr., shown at right, a graduate of North Carolina State College and previously employed as a demonstrator-technician in the Charlotte office, has been added to the Southern sales staff and will cover the North and South Carolina area, working out of the Charlotte office.



F. B. Galligan, general manager of Firestone Textiles, Bennettsville, S. C., has been transferred to Firestone Textiles, Inc., at Gastonia, N. C., as production superintendent. . . . E. F. Sweeney, general manager of Firestone Textiles, Ltd., Woodstock, Ont., Canada, replaces Mr. Galligan at Bennettsville.

John B. Thompson, secretary of Dixie Mercerizing Co., Chattanooga, Tenn., has assumed the additional duties of treasurer of the firm. . . . W. W. Logan is now assistant secretary, T. L. Wilkey superintendent of spinning and C. E. Rollins superintendent of mercerizing.

Raymond K. Briden has joined the fabric development and designing staff of the New York office of Dan River Mills. He formerly was with Lorraine Mfg. Co., Deering-Milliken and J. W. Valentine Co.

Charles A. Cannon, president of Wiscasset Mills Co. at Albemarle, N. C., and Cannon Mills Co. at Kannapolis, N. C., this month received a citation and honorary membership in the American Hospital Association.

ciation for his assistance in founding and operating the Cabarrus County Hospital at Concord, N. C. He is one of 50 citizens of the United States and Canada to be so honored.

George E. Ward has been appointed chief of the textile section of the Export Branch of the Joint Export-Import Agency at Frankfurt, Germany. He succeeds Howard Veit, who returned to the United States recently. Mr. Ward previously was in charge of export sales, and at one time was with the War Production Board's textile division. Howard Woodbury, assistant chief under Mr. Veit in charge of production, has completed his duties in Germany and has returned to the United States.

Stuart B. Walker, secretary and treasurer of United States Testing Co., Hoboken, N. J., recently celebrated his 20th anniversary with the firm, which he joined in the textile division immediately after graduating from New Bedford (Mass.) Textile Institute.

J. F. Plexico has resigned as manager and superintendent of Linwood Cotton Mills at LaFayette, Ga., to become night superintendent at the Lancaster, S. C., plant of Springs Cotton Mills. Russell Fennell, formerly superintendent, has been named to succeed Mr. Plexico at Linwood.

C. Callaway, Jr., treasurer of Crystal Springs Bleachery of Chickamauga, Ga., has been elected president of the Chattanooga (Tenn.) Control of the Controllers Institute of America. . . . At the same meeting, Marion W. Morris, assistant treasurer of E-Z Mills, Inc., Cartersville, Ga., was re-named a director.

Donald K. Woodard, who recently resigned as vice-president of Textron, Inc., joined the executive staff of American Thread Co. Sept. 7 and will devote his at-



**FROM WEAVE SHED TO MAJOR LEAGUES**—Lou Brissie (left), impressive rookie pitcher for the Philadelphia Athletics who survived severe wounding in the war and 23 operations on his legs, reminisces over his outstanding pitching record with the Ware Shoals (S. C.) Riegels, Central Carolina League club on which he made his start, with John L. Riegel (right), president of Riegel Textile Corp. Lou's admirers in the company gave him a dinner Sept. 7 at the Waldorf-Astoria Hotel in New York City. The baseball-minded Riegel organization has several ball clubs, at its plant towns in Ware Shoals and Trion, Ga., and at Riegel Paper Corp. plants in New Jersey near Easton, Pa. Virgil Stalleup, shortstop for the Cincinnati Reds, is another former Riegel player who has made the big leagues.

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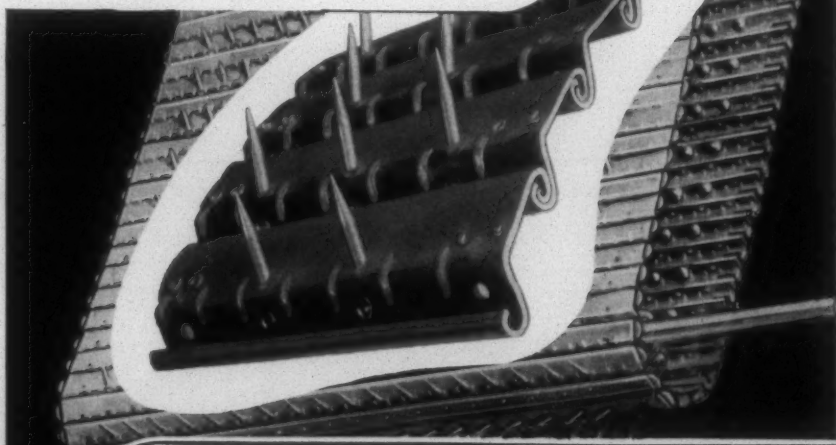
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The new KNOTWOOD Aprons have been thoroughly tested and approved by leading mills. Their smooth, positive drive, simple, efficient construction and long life mean more and better production at less cost.

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Charlotte plant and offices.*



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### PERSONAL NEWS

tention to the mill operating division, making his headquarters in New York.

E. L. Rankin, Jr., an experienced newspaperman, has joined the public relations department of Burlington Mills Corp., Greensboro, N. C., as head of its publicity section.

Robert L. Huffines, Jr., president of Burlington Mills Corp. of New York, has been appointed chairman of the National Special Gifts Committee of the Philadelphia Textile Institute Foundation in its appeal this Fall.

### OBITUARY

**George H. Lanier**, 68, one of the South's leading textile executives, died Sept. 17 at his home in West Point, Ga. Mr. Lanier was president of the West Point Mfg. Co. chain which included units at Fairfax, Lanett, Langdale, Riverview and Shawmut, Ala. He was also president of the Lanett Bleachery and Dye Works. He received his training at the Philadelphia Textile Institute and began his career as superintendent of the Pepperton Cotton Mills at Jackson, Ga. He joined West Point Mfg. Co. in 1906 as vice-president and general manager and in 1910, upon the death of his father, Lafayette Lanier, one of the founders of the concern, assumed the presidency of the huge firm. He held an impressive list of titles in concerns outside his home state. He was a member of the board of directors of the Cotton-Textile Institute, the Cotton Duck Association, the American Cotton Manufacturers Association, the Alabama Cotton Manufacturers Association, the Cotton Manufacturers Association of Georgia, Southern Bleachery and Dye Works at Taylors, S. C., Cabin Crafts, Inc., at Dalton, Ga., Wehadkee Yarn Mills at Rock Mills, Ala., the Continental Gin Co., Birmingham, Ala., and Textile Hall Corp., Greenville, S. C. His other business interests included connections with three banks and two railroads. He was a regional director for the Boy Scouts of America and was a national representative for the Scouts. Surviving are his wife, three sons and two daughters.

**August G. Hafner**, 65, fabric development pioneer in both the silk and rayon industries, died recently after a brief illness. He was founder, chairman of the board and president of Hafner Associates, Inc., of Long Island, N. Y., and also established Hafner Fabrics Corp. of New York. A native of Switzerland, Mr. Hafner came to this country when he was 17 years old, settling in Altoona, Pa. He started in the silk industry with Schwarzenbach-Huber Co., and later became head of Altoona Textile Co. He founded Hafner Associates in 1935. Surviving are his wife, two sons, three daughters and a sister.

**John K. Whitaker**, 51, president of Neuss Hesslein & Co., Inc., and Hesslein & Co., Inc., died suddenly Aug. 25 at his home in Bronxville, N. Y. Mr. Whitaker was a veteran of the textile merchandising business, having been connected with the Hesslein organization over 36 years, begin-

...his career in the sample room of the firm at about the age of 14. He was a director of the Cotton-Textile Institute, Inc., the Association of Cotton Textile Merchants of New York, and was one of the leading figures in organizing the various sections of the cotton textile industry in the campaign to broaden the use of cotton goods in bags. Surviving are his wife, a son and two daughters.

**John Q. Gant**, former vice-president and treasurer of Jewell Cotton Mills and a director of the Glen Raven (N. C.) Cotton Mills, died Aug. 19 at an Augusta, Ga., hospital. He made his home in Warrenton, Ga. Surviving are his wife, two sisters and six brothers.

**James C. Smith**, 71, retired mill superintendent of Gastonia, N. C., died Aug. 24 after a lengthy illness. Mr. Smith served for 25 years as superintendent of Trenton Cotton Mills at Gastonia. Surviving are his wife, five daughters, a son, two step-children and a brother.

**Cecil C. Willis**, 60, secretary-treasurer of the Eagle & Phenix Division of Fairforest Co., died Aug. 23 at the mill's office in Columbus, Ga. He had been with the mills for about 35 years, entering the concerns employ when the Eagle & Phenix firm was owned by Columbus interests, and continued as secretary-treasurer after Fairforest purchased the business about a year ago.

**Jackson W. Burnett**, 69, president and treasurer of Southern Weaving Co. at Greenville, S. C., died Aug. 19 following a brief illness. Mr. Burnett was prominently identified with the textile industry for many years. He was an organizer of the Southern Weaving Co. in 1924, one of Greenville's "grass-roots" textile industries and one of the few in that area still controlled by Greenvillians. Surviving are his wife, one son, a daughter and two sisters.

**Edward Green**, former treasurer of Crompton & Knowles Loom Works, Worcester, Mass., died recently. Mr. Green retired as treasurer of the company in 1946 after 64 years in the employ of that concern and its predecessor, L. H. Knowles Co. Surviving are his wife and a daughter.

**Eugene S. Mitchell**, 76, retired executive of Avondale Mills, died recently at his home in Sylacauga, Ala., after a lengthy illness. A native of Atlanta, Ga., Mr. Mitchell was connected with Exposition Cotton Mills in that city before joining Avondale, where he remained until his retirement.

**Edward J. Gallagher**, 52, of Salisbury, N. C., secretary of the North Carolina Finishing Co., died at his home Aug. 27 after a short illness. Surviving are his wife, one son, three daughters, two brothers and a sister.

**Fred Pickard**, 75, senior partner of Joseph Pickard's Sons Co., Philadelphia, Pa., manufacturer of loom replacement parts, died Aug. 20 after a short illness. Mr. Pickard had been associated with the textile industry since 1885 and for the past 45 years had been a member and partner in the firm founded by his father, Joseph Pickard, in 1892. Surviving are his wife, two brothers and two sisters.

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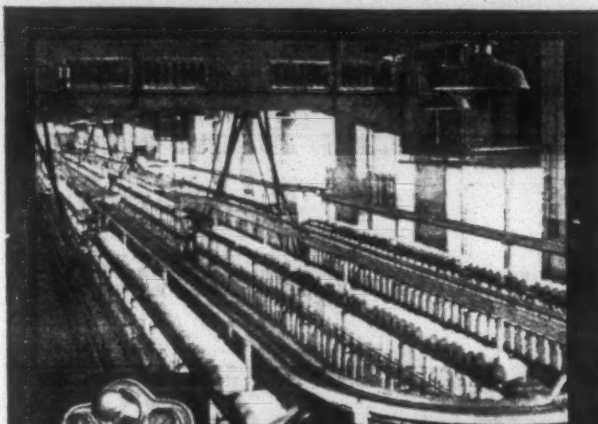
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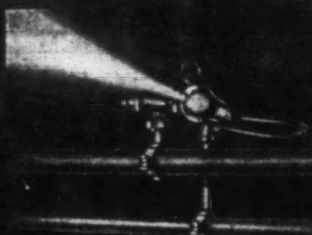
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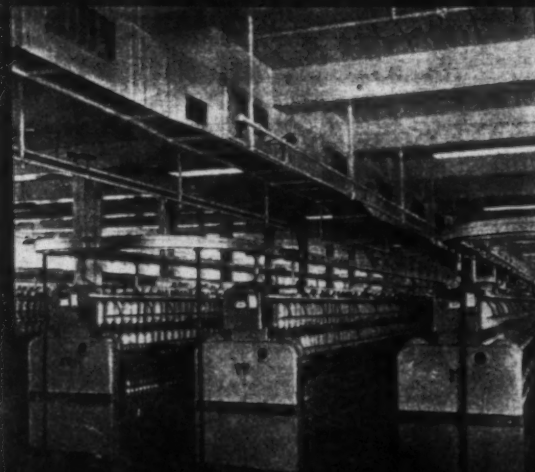
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# MILL NEWS

CONSTRUCTION. NEW EQUIPMENT. FINANCIAL REPORTS. CHARTERS. AWARDS. VILLAGE ACTIVITY. SALES AND PURCHASES

**PICKENS, S. C.**—Pickens Mill is enlarging its opener room and installing new machinery at a cost of about \$45,000. The work is described as a modernization, and not an expansion project, as no new employees will be hired to handle the new machinery.

**GALAX, VA.**—Installation of 100 new looms for the production of decorative fabrics has been completed at the recently-expanded Galax plant of Burlington Mills Corp.

**DALLAS, TEX.**—Horvath Mills, Inc., of New York, has sold its textile plant here, until recently operated as Dallas Mills, to a Dallas realtor, J. N. Fisher, who purchased the property as an investment.

**LAVONIA, GA.**—Fiske-Carter Construction Co. of Spartanburg, S. C., has been awarded the contract for construction of a weaving mill here for Albert J. Bartson Co. of Midland, N. J. Estimated cost of the project is \$215,358.

**CATEECHEE, S. C.**—Norris Cotton Mills Co. is planning installation of an air-conditioning system in its spinning department, to cost about \$150,000.

**BLADENBORO, N. C.**—Plant No. 3 of Bladenboro Cotton Mills, Inc., is installing 16 264-spindle, and six 228-spindle spinning frames. The plant recently completed the installation of 16 new cards, three new one-process pickers, six winders and one 800-end ball warper.

**SPARTANBURG, S. C.**—A \$1,500,000 suit, involving about \$2,000,000 in alleged commissions and attacking \$80,000 in purported bonuses, has been started in U. S. District Court here against the Brandon Corp. Mrs. Joseph T. Johnson of Spartanburg is the plaintiff in the action and is "suing for the benefit of herself and all other common stockholders of the Brandon Corp." Defendants are Summerfield Baldwin, Jr., of Maryland; G. B. Dorsey of New Jersey; the J. E. Sirrine Estate; C. E. Hatch, H. T. Mills, W. C. Beacham, E. R. Stall, W. B. Perrin and A. W. Smith, Jr., all of Greenville, S. C., individually, and as directors of Brandon Corp., and the corporation itself.

**BOSTON, MASS.**—The vast activities of the Kendall Co. are described in an attractive 24-page booklet, "The Kendall Story," recently distributed by the firm. According to the booklet, Kendall cotton mills house nearly 300,000 spindles and 6,400 looms and the Finishing Division processes nearly half a billion yards of finished fabric in an average year.

**FLETCHER, N. C.**—Potter & Shackelford, Inc., of Greenville, S. C., have been awarded the contract for construction of a new finishing plant here for Cranston (R. I.) Print Works Co. J. E. Sirrine Co. of Greenville are engineers for the project, the estimated cost of which is \$3,500,000. The new mill, which will be devoted entirely to finishing cotton goods, will employ about 400 persons, it is reported.

**GREENSBORO, N. C.**—Reversing the current trend away from company housing, Cone Mills Corp. has under construction a project of 65 attractive, modern houses for mill employees. English Construction Co. of Alta Vista, Va., is producing the houses en masse through the medium of prefabrication-on-the-lot. Through mass production methods and careful purchasing of supplies, the costs have been held at \$1,000 per room, it is said.

**ELIZABETH, TENN.**—J. E. Bassill, president of North American Rayon Corp. and American Bemberg Corp. stated Aug. 19 that the boards of directors of the two companies consider that it will be difficult, although desirable, to effectuate a merger before expeditious sale of the government's interest in the companies. Mr. Bassill said that the directors are continuing to examine the question, however. In the final ratings of an independent board of judges for the *Financial World* annual report survey, American Bemberg Corp. was judged as having the best 1947 annual report of the rayon industry. The bronze "Oscar of Industry" trophy will be presented to Mr. Bassill Oct. 21 at the annual awards banquet to be held at the Hotel Pennsylvania in New York City.

**WILMINGTON, DEL.**—Five plants of the Du Pont Co., employing a total of 10,450 persons, have established records of working more than ten million man-hours each without a single lost-time accident as of the end of July, figures announced by the company Aug. 23 showed. Among the five plants, the nylon plant at Martinsville, Va., led with 15,493,000 man-hours. The Seaford, Del., nylon plant was second with 13,093,200. The other three were the Belle, W. Va., plant of the Ammonia Department near Charleston, 10,969,500; the Doyle Works of the Plastics Department at Leominster, Mass., 10,296,400, and the Parlin, N. J.,

works of the Fabrics & Finishes Department, 10,238,300. The Doyle Works has operated 3,342 calendar days, or more than nine years, without a lost-time accident. The Martinsville plant is second in calendar days with 2,194, or more than six years.

**MONROE, GA.**—Walton Cotton Mill Co. has set up a retirement fund for its approximately 600 employees. The company will place a portion of its earnings, above a designated amount, into a trust fund which will be distributed to its employees upon their reaching the age of 65. The retirement plan became effective Sept. 1.

**ELON COLLEGE, N. C.**—Ossipee Weaving Co., division of Burlington Mills Corp., has received its third accident prevention award from the Liberty Mutual Insurance Co., marking the first time an industrial plant has received such triple recognition from the insurance concern. Most recent award was made in June while the two previous awards were made in January, 1946, and May, 1947.

**MEMPHIS, TENN.**—A reduction in the cost of handling acetic acids and a greater efficiency in production has been achieved at the American Finishing Co. plant here as a result of recent "streamlining" installations. A lightweight, 12,000-gallon aluminum storage tank was put up outdoors near a railroad track for handy unloading and then four 50-gallon aluminum tanks were installed in the plant at strategic locations near vats where the acid was to be used.

**ROANOKE, VA.**—Work began recently at the Roanoke plant of American Viscose Corp. on an addition to the acid-reclaim building, designed to insure maintenance of production capacity at the present level. Officials emphasized that no expansion is contemplated, but rather a margin of safety is sought to assure continuous production at present full capacity with a minimum chance of breakdowns. New ammonia condensers will be erected on the roof of two com-



**BEMIS COTTON MILL BUILDS CLINIC FOR EMPLOYEES**—A modern medical clinic for the use of employees and their families has been built by Bemis (Tenn.) Cotton Mills. The building and some equipment are owned by Bemis Bros. Bag Co., which is making office and laboratory space available to doctors and dentists for a nominal rental fee. Housed in a \$25,000 brick building, the clinic's facilities include physio-therapy and X-ray equipment, dental operating rooms and laboratory, medical laboratory and fireproof vault, as well as rooms for reception, consultation, treatment and recovery. This latest addition to the Bemis community is now partially in operation and will be fully staffed as soon as necessary arrangements are completed.

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### MILL NEWS

pressor rooms and additional air conditioning will be provided through the erection of a new building and the installation of new fans and refrigeration equipment.

KINGSPORT, TENN.—Borden Mills, Inc., is in the midst of an extensive re-modernization program costing a minimum of \$2,500,000. Installation of new equipment in the various departments of the plant comprises the major portion of the program. The firm is replacing the conventional with Whitin super draft drawing. An automatic elevator has been installed and other construction work is in progress.

CASAR, N. C.—A new cotton yarn mill is under construction here on a lot owned by A. C. Brackett, Sr., one of the principal stockholders in the enterprise, and is scheduled to be in operation by Dec. 1. The main mill building will be 150 by 75 feet, one story high, and a smaller building, to be used for a boiler room, is to be 50 by 75 feet. Both are to be constructed of concrete blocks, brick veneered. R. J. Woods, who will operate the plant when completed, is an experienced textile man, having previously owned and operated a hosiery mill at Boiling Springs, N. C., and the Buffalo Mill near Shelby, N. C.

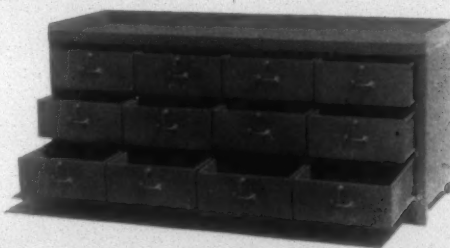
COOSA PINES, ALA.—A Philadelphia, Pa., firm has been awarded a contract for painting the rayon plant here of Beaunit Mills, Inc. The value of the contract runs into six figures, it is reported.



**INDUSTRIAL VILLAGE FOR TEXTILE WORKERS**—A program is now underway which, when completed will provide 100 homes for employees of Frank lx & Sons, Inc., Charlottesville, Va. Fifty of these houses are now occupied. These four and six room homes are modern throughout. They are of cinder block construction, with stucco outside. Interiors are sand finish plastered walls and ceilings, with hardwood floors and complete insulation. Coal or oil central heat is provided along with aluminum storm windows and screens. Gas or electric service is provided for the kitchen as the tenant may choose. It is expected that this housing project will be completed this year.

LANCASTER, S. C.—Springs Cotton Mills has purchased a tract of land at Myrtle Beach, S. C., with a 1,000-foot beach front and a 1,000-foot depth, to be developed into a private beach resort for the approximately 11,500 Springs employees. The resort, it is reported, will have a central club house and dining room surrounded by cottages. It is hoped that construction will be

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completed by June 1, 1949. Springs also has announced that it will build three memorials to its employees who served in World Wars I and II. A memorial will be placed in each of three counties, Lancaster, York and Chester, where Springs plants are located, and will be in the form of a club house and community center, including golf courses.

GREENVILLE, S. C.—Berkshire Woolen Co., Inc., Pittsfield, Mass., will establish a plant in Greenville as soon as legal and technical problems can be worked out, it is reported. Berkshire is one of the oldest woolen mills in the nation, producing all-wool goods for men's and women's suitings.

ASHEBORO, N. C.—Sun Spun Mills, a unit of Burlington Mills Corp., has been sold to Greensboro (N. C.) Overall Co. for an estimated \$130,000. The structure contains approximately 40,000 square feet of floor space and is of modern brick and steel materials. The building will be adapted to production of overalls and dungarees.

ANDERSON, S. C.—Initial production is now underway at the new Haynsworth rayon mill of Ottaray Textiles, Inc. Cloth shipments will begin about the middle of October, it is reported. The mill opened with about 50 employees and will build up to 200 or more when all looms are in place. H. L. Pruitt is general manager of the new plant and Harold Mason is superintendent.

CAMDEN, S. C.—The Du Pont Co. may produce its new textile fiber, Orlon, at its plant now under construction here. Du Pont officials recently issued the following statement: "Final plans for the site at Camden, S. C., have not yet been determined, but Orlon acrylic fiber is one of the products under consideration to be manufactured there."

ANNISTON, ALA. — A branch plant of Columbia Weaving Mills, Inc., of Paterson, N. J., may be established in Anniston soon. Officials of the Anniston Chamber of Commerce and the Anniston Committee for Industrial Development announced that start of plant construction is subject only to the

raising of funds for the erection of the building by citizens of Anniston, and an agreement for tax exemption.

SCOTTSVILLE, VA.—The Scottsville textile plant of United States Rubber Co. has won the general manager's safety contest for the first half of 1948. In winning this award, a bronze plaque, the plant operated a total of 311,860 man-hours without a lost-

time accident. The Scottsville plant now has operated since Sept. 11, 1946, without a lost-time accident and has accumulated a total of 1,239,132 man-hours without a lost-time accident.

CHARLOTTESVILLE, VA. — Frank Ix & Sons, Inc., manufacturer of silks and rayons, with mills at Charlottesville, North Bergen, N. J., and New Holland, Pa., has an-



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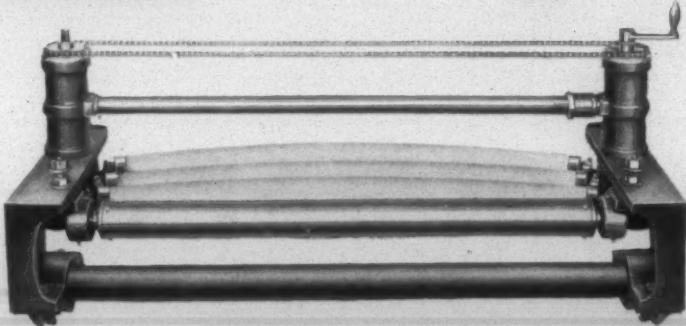
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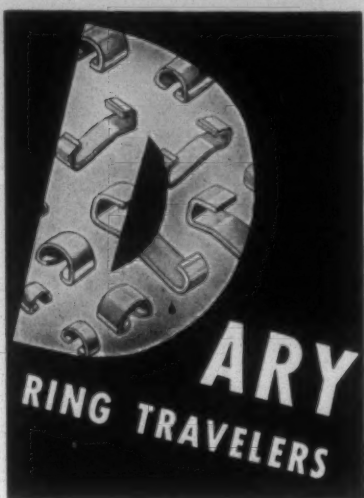
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H. REID LOCKMAN, BOX 515, SPARTANBURG, S. C.  
JAMES H. CARVER, R. F. D. 2, SHELBY, N. C.



## MILL NEWS

nounced the establishment and availability of an educational loan fund for the benefit of employees and their children and designed to provide financial assistance to those needing it who wish to pursue their educational training beyond the high school level. The fund, which was established in accordance with the wishes of Mrs. Catherine Le-Bert deBar Ix, who died in the early part of this year, is dedicated to her memory as a co-founder, with Frank Ix, Sr., of the company. The plan is to be administered by the Ix Foundation with Mr. Ix and his five sons acting as trustees.

**SHELBY, N. C.**—After two years of extensive modernization, Cleveland Cloth Mills, a unit of J. P. Stevens & Co., Inc., was scheduled to be shown to the public at an open house Sept. 27-28. On the following day, Stevens officials were to be honored at a testimonial dinner given by the Shelby Chamber of Commerce.

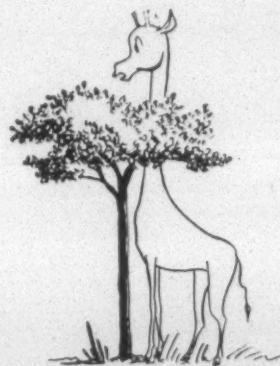
**CHATTANOOGA, TENN.**—Dixie Mercerizing Co. has been presented the Distinguished Service to Safety Award, the National Safety Council's highest honor to industry, becoming the 15th textile mill in the nation and the third in Tennessee to receive the award. Dixie Mercerizing became eligible for the award by working 1,182,640 man-hours without a lost-time injury during the period of Feb. 21, 1946, to April 21, 1948, and by establishing rates substantially below the most recent averages for similar organizations.



**EIGHT BALL FOR SAFETY** — Many cotton mills have enviable safety records, among them the Erwin Cotton Mills at Durham, N. C. Above, Glenn Penland, safety director at the mills, adds the finishing touches to a new creation — the eight ball. The eight ball is to remain in the possession of the department having the last lost-time accident. There is a positive side to the safety program also, with various awards for good records.

**DALLAS, GA.**—Dallas Mills, a division of A. D. Juillard & Co., Inc., of New York City, has been purchased by Otto M. Feil, Atlanta industrial realtor, and Comer Machinery Co., an Atlanta partnership. The plant utilized 10,220 spindles in the production of plied yarn and employed about 150 persons. The new owners plan to sell the property as a complete unit of building

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and equipment, if possible. If efforts to sell as a unit fail it is reported that the machinery might be sold for export.

ACWORTH, GA.—Clark Thread Co. has completed transfer of its manufacturing facilities to Georgia and has purchased the Acworth Mills for the relocation of one of its spinning mills. Acworth, formerly engaged in the manufacture of tobacco cloth, is now equipped to produce 110s yarn twisted into six-cord thread for domestic sewing.

GREENVILLE, S. C.—Construction is to start soon on a small brick office building to serve the Greenville plant of Woodside Cotton Mills Co. The building will contain offices for a nurse and doctor and the payroll and personnel department. The mill also is installing a fire protection system in the storage warehouse under construction at the rear of the plant, scheduled for completion in November.

ALBANY, GA.—Installation of a \$75,000 air cooling system in the new Clark Thread Co. finishing plant here has been announced by A. J. Morse, vice-president.

BANNING, GA.—Banning Cotton Mill is being offered for sale, it was made known Sept. 7 by A. L. Fuller of Newnan, Ga., the owner. The mill has 4,600 spindles manufacturing coarse yarns. The three-story building consists of 50,000 square feet and the offer includes 516 acres of woodland and a mill village of 55 houses.

NEW YORK, N. Y.—Post-war expansion and modernization costing more than \$80,000,000 has raised United States Rubber Co.'s production capacity to the highest peak in its history, according to Herbert E. Smith, president. New textile units put into operation since the war include: Scottsville, Va., rayon tire cord; Burlington, N. C., new textile products; and Gastonia, N. C., combed cotton yarn.

PROVIDENCE, R. I. — Consolidated net profit after taxes of Textron, Inc., and subsidiaries for the six months ended June 26, 1948, amount to \$3,805,000 after deducting

earnings of \$135,000 applicable to minority interests and after appropriating \$1,000,000 to reserve for contingencies, Royal Little, president, reported Aug. 23. These earnings were equivalent, after allowance for preferred dividends, to \$3.20 per share on 1,132,631 shares of common stock outstanding on June 26, 1948. The comparable profit for the first six months of 1947, after appropriating \$1,000,000 to contingency reserves, was \$2,841,000, or \$2.67 per share

on 1,017,856 shares of common stock outstanding on June 28, 1947. Consolidated net sales for the first six months of 1948 amounted to \$56,835,000 excluding inter-company and interdivisional sales, as compared with \$62,088,000 for the first six months of 1947. Mr. Little announced Sept. 13 that the board of directors had approved the program for the expansion of Textron apparel lines for 1949 and, at the same time, voted to discontinue the manufacture of

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## MILL NEWS

sheets and blankets at Nashua, N. H., and to close the mills there. "Upon completion of a \$12,000,000 program for new mills and sewing plants in South Carolina, Georgia and Puerto Rico, and the modernization programs now under way in its 29 existing plants," he stated, "the company will have taken a further step toward the

realization of its basic objective." The firm announced sometime ago it would center its Southern operations in the Anderson, S. C., area and recently announced plans for a 50,000 square foot warehouse in Anderson to serve as a shipping center for finished products from Textron Southern's mills in the Carolinas and Georgia.

WASHINGTON, D. C. — The announced intention of Textron, Inc., to close plants

in six places in New England and Virginia will be probed by the Senate Small Business Committee, according to a recent statement by Senator Bridges (R-N. H.). Textron, it is understood, plans to move certain operations to plants under construction in Puerto Rico. Senator Bridges declared he wanted to "find out how Puerto Rico, where Americans have been pouring tax dollars for years, can lure industries away from this country."

DANVILLE, VA.—A net profit after taxes of \$8,229,462 for the 27-week period ending July 4 was reported to stockholders Aug. 24 by George S. Harris, president and treasurer of Dan River Mills, Inc. The profit, realized on net sales and other income totaling \$55,516,311, amounted to \$5.41 a share on 1,500,000 shares of common stock outstanding. The figure compared to a net profit of \$6,163,263, or \$4.03 a share, for the same period of 1947. Income for the 1947 period had reached \$45,709,141. In his statement, Mr. Harris reported that the cost of establishing the company's retirement plan for employees, as approved by stockholders last March 11, is now estimated for past services "to be at least \$3,500,000." The plan went into effect on May 1. Mr. Harris also pointed out that depreciation reserves for plant and equipment, as allowed by current tax laws, are still "wholly inadequate to provide replacements at current high cost levels. This situation is so important in our plans for the future that we deem it worthwhile again to direct your notice to the fact," he said. The statement showed that \$675,000 has been set aside for depreciation, based upon original costs of plant and equipment. The company this year is rounding out a three-year \$15,000,000 plant improvement and re-equipment program, which has been financed out of earnings.

CHARLOTTE, N. C.—Spatex Corp. Sept. 26 took over operation of the former Hoskins Plant here of Textron Southern, Inc., and is placing the plant's production entirely on combed lawns instead of its former output of 60 per cent combed lawns and 40 per cent carded yarns. J. E. McCarvey, for-

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merly superintendent at Thomaston Cotton Mills, Griffin, Ga., is general manager of the Charlotte plant. Robert T. Gilman of New York, who heads Spatex Corp., also is president of Profile Cotton Mills at Jacksonville, Ala.

**GREENWOOD, S. C.**—The new filament rayon weaving plant to be constructed here by Greenwood Cotton Mill will be named Harris Mill in honor of J. B. Harris, vice-president and general manager of Greenwood Cotton Mill and chairman of the board of Greenwood Mills, Inc., the selling organization in New York. Mr. Harris, who started his textile career at Pelzer, S. C., as a boy of 12, has been connected with Greenwood since 1913. He has been vice-president of the firm for 25 years.

**SPARTANBURG, S. C.**—Twenty-six additional cards have been installed and 2,700 square feet of floor space added in redesigning and expansion of the carding department at Beaumont Mfg. Co. New equipment has been installed in the opening and picker rooms. At Spartan Mills, a \$450,000 system of air change and humidity control is being installed in the No. 1 and 2 plants. New offices for the mills' production and personnel departments, laboratory and clinic, were to be opened to the public at an "open house" observance Sept. 29.

**SPARTANBURG, S. C.**—J. M. Reeves, president of Reeves Brothers, Inc., operators of nine textile plants in the Carolinas and Georgia, disclosed recently plans for a modernization program in the plants to involve an ultimate expenditure of more than \$2,000,000. First mills to benefit from the program will be the Eagle & Phenix Mills at Columbus, Ga., and Osage Mfg. Co. at Bessemer City, N. C. Enlargement of the research laboratory and its staff at the Fairforest Co. finishing plant also is included in the program. Mr. Reeves said orders have already been placed for a number of the latest types of equipment for the plants. The expansion plans were disclosed in conjunction with the distribution of the annual report to the stockholders, showing: The highest earnings in the mills' history, record peacetime sales volume and consolidated

net earnings of \$5,953,042. The net sales of the eight mills was \$68,410,034 as compared with sales of \$49,025,066 the preceding fiscal year.

**VALDESE, N. C.**—Valdese Mfg. Co., producer of carded and dyed cotton knitting yarns, is considering plans to inaugurate spinning of nylon yarns for hosiery and sportswear. At a recent meeting, directors authorized management to proceed with enlargement of plant facilities for nylon spinning if the undertaking seems advisable. Officers of the firm are A. F. Garrou, president; Louis Bounous, vice-president and superintendent; Earl M. Spencer, secretary-treasurer; and L. P. Guigou, assistant secretary-treasurer.

**SPRAY, N. C.**—Employees of Fieldcrest Mills at Spray, Leaksville and Draper, N. C., have contributed \$6,762.88 to the fund

which was collected for the erection of the Central North Carolina Convalescent Hospital at Greensboro, N. C., which will provide treatment for infantile paralysis victims. Fieldcrest Mills, as a firm, made an additional donation of \$1,000.

**SWEETSONVILLE, N. C.**—Employees of Virginia Mills, Inc., have worked a total of 1,140,328½ man-hours since February without a lost-time accident. Walter M. Williams, executive vice-president and general manager, states that this is the best safety record established in the plant's history.

**MARION, N. C.**—Installation of air conditioning and air cleaning systems in the spinning and winding rooms of the Cross Cotton Mills is well underway and will soon be completed, according to W. Walter, engineer of Carrier Corp. The contract was

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## MILL NEWS

awarded to Carrier at a cost of \$83,275. In addition to air conditioning, the system includes a bank of electromatic air filters which have an efficiency of 85 per cent by the discoloration method of testing in cleaning the air of smoke and other foreign substances. It also is made known that the company is spending an additional \$75,000 for a new roof which will include two inches of cork insulation.

ALTAVISTA, VA.—Burlington Mills Corp. will begin immediately with the erection of a modern pilot plant for textile dyeing and finishing on a site adjacent to Altavista, it

was announced Sept. 9 by J. C. Cowan, Jr., president of Burlington Mills. This expansion is in keeping with the long established policy of Burlington Mills of merchandising more of its products in the finished state. Mr. Cowan explained that it is now deemed advisable to have pilot plants to handle a limited quantity of every type of fabric that the company manufactures so that experimental work can be carried on with all new finishes of these materials. After completion of the new finishing plant at Altavista outside finishing firms will still continue to handle approximately two-thirds of the dyeing and finishing of the company's production. A simultaneous announcement was made by President Cowan that an addi-

tion has been contracted for at the Altavista Mills, a weaving unit of Burlington Mills, that will be used for storage, auxiliary operations, and to round out the weaving operation there. English Construction Co. of Altavista will build this addition, which will be two stories high. Ground will be broken immediately. J. S. Ballenger is plant manager for Burlington at Altavista Mills. The new finishing plant is expected to be completed some time next Summer. Actual dyeing and finishing there will be underway late next year. The contract for this plant building has been let to Daniel Construction Co. of Greenville, S. C., and the contractors are already on the scene and preparing to break ground.

# For The Textile Industry's Use

## EQUIPMENT — SUPPLIES — LITERATURE

### Barber-Colman Appoints Machine Tool Distributor

Barber-Colman Co. of Rockford, Ill., announces that Apex Machine Tool Supply of 312 North McDowell Street, Charlotte, N. C., has been appointed exclusive Carolinas distributor for Barber-Colman hobbing and hob sharpening machines, hobs, milling cutters and other metal cutting tools and



reamers. Paul Wichelhaus, pictured at left, is the owner and manager of Apex Machine Tool Supply. He has been in the machine tool and engineering trade for more than 35 years, and before coming to Charlotte was plant manager for

Hopkins Machine Corp. of Chicago, Ill. Mr. Wichelhaus announces that he is available to discuss any machine and production problems with textile industry officials.

### Five Circulars Available From Birch Brothers

Birch Brothers, Inc., 32 Kent Street, Somerville, Mass., has the following circulars available for distribution upon request: No. 1041, ball-bearing adjustable spiral opening unit; No. 745, individual vacuum extractor with a patent adjustable slot vacuum extracting box; No. 1025, heavy squeeze roll unit for padding or extracting (30,000-pound capacity); No. 1040, vacuum pump unit and strainer; and No. 988, diagram of cloth opening ranges showing one vacuum extractor and the other heavy squeeze roll extractor.

### Hubinger Co. Denies Sale, Merger Rumors

Officials of the Hubinger Co., Keokuk, Iowa, stated recently that the firm "has not been sold or merged and no sale or merger is being contemplated. No offers relative to

sale or merger are being considered. The company has, however, expanded its production facilities and has increased its sales personnel. The Hubinger Co. intends to continue indefinitely under present ownership and management." The statement was made to offset rumors which recently have circulated in-trade channels. Hubinger manufactures starches, syrups and sugars from corn.

### Latest Tennant Bulletin On Floor Maintenance

"How To Get Better Results in Textile Floor Maintenance" is the title of the latest bulletin published by G. H. Tennant Co., 2530 North Second Street, Minneapolis 11, Minn. The four-page, two-color booklet contains new facts and data about floor care gathered from mills which employ Tennant's floor maintenance system. Copies of Bulletin 81.71 may be secured upon request.

### Take-up And Let-off For Existing Braiders

A new braider take-up and let-off, said to consistently produce first-quality braid of uniform width, has been announced by New England Butt Co., 304 Pearl Street, Providence 7, R. I. The Nebutto take-up and let-off can be installed readily on existing braiders. Further details and prices may be secured from the company.

### Clinton Head Sees Lower Prices On Corn Products

Prospects for lower prices for products manufactured from corn will be excellent in the coming year because a record corn crop is practically assured, according to R. E. Clizbe, president and general manager of Clinton (Iowa) Industries, Inc. The company now is completing an extensive expansion program at its home plant, and at present has a grinding capacity of more than 47,000 bushels of corn daily.

### Resin Products Covered In New Onyx Bulletin

Bulletin No. TX-2, dealing with Onyx resins and and Xyno resin dispersions and solutions, has been announced by Onyx Oil & Chemical Co., Jersey City 2, N. J. The bulletin reviews the basic principles of synthetic resin chemistry and discusses the utility of the various Onyx resin solutions and Xyno resin dispersions in the textile industry. Copies may be secured from the company.

### General Dyestuff Has Five New Circulars

General Dyestuff Corp. announces the release of the following new circulars: G-519, "Azo Phloxine GA Extra Conc. CF;" G-530, "Chromoxane Brilliant Violet REA-CF;" G-531, "Wool Green BSNA Extra Conc.;" G-540, "Diaz Brilliant Scarlet GGA Extra CF;" and G-548, "Katigen Yellow GA-CF." They may be secured by addressing the company headquarters, 435 Hudson Street, New York 14, N. Y., or branches in various parts of the country.

### Du Pont Announces Three Anthraquinone Vat Dyes

Three new anthraquinone vat dyes have been developed by the Dyestuffs Division of E. I. du Pont de Nemours & Co. They are Ponsol Brilliant Orange RK Paste, Ponsol Gray R Paste, and Ponsol Red GLL Paste. Ponsol Brilliant Orange RK Paste produces a brilliant tangerine shade that cannot be reproduced with other anthraquinone vat dyes. It possesses good resistance to chlorine, washing, crocking, hot moist pressing, dry cleaning, and salt water spotting. It also has good fastness to light and peroxide bleaching and is recommended for fabrics that must withstand weathering or that require a combination of light fastness and good resistance to wet processing. It is suitable for dyeing cotton and viscose process rayon in all forms. Ponsol Gray R

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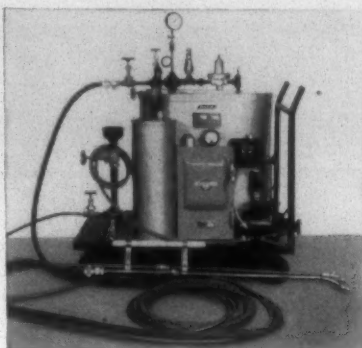
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Paste produces gray shades with a desirable neutral tone. It will serve as a base for a wide range of attractive grays having very good fastness to light. It exhibits generally good resistance to various wet processing treatments and is suitable for dyeing cotton and viscose rayon in all stages of manufacture. It is recommended for shirtings, industrial uniform cloths, draperies, dress goods and other fabrics where good fastness to light and laundering is required. Ponsol Red GLL Paste gives pink and red shades with an unusual degree of light fastness. It yields attractive self shades and is useful as a base for light-fast rose shades. It is recommended for upholstery fabrics, drapery materials and other use where excellent light fastness is essential.

#### Portable All-Electric Industrial Steam Cleaner

A portable, all-electric, industrial steam cleaner is announced by Livingstone Engineering Co., manufacturer of high pressure electric steam boilers at 100 Grove Street, Worcester, Mass. This latest addition to the Livingstone line will be known as the Speedylectric Steam-Jet Cleaner and is designed to meet an insistent demand for a really portable heavy-duty steam cleaning unit, easy to operate, completely safe and thoroughly effective. Increasing recognition of the importance of good working conditions, tools free of grease and dirt, clean shops and washrooms, and better all-around

industrial housekeeping is placing a heavy and mounting burden on plant maintenance departments. Rising wages highlight the importance of mechanizing the old mop and pail brigade with time and labor saving equipment.



According to the manufacturer, the Speedylectric Steam-Jet Cleaner has many industrial plant applications — cleaning walls, ceilings, windows and fixtures; sterilizing and cleaning washrooms; degreasing machinery, equipment, parts and tools. Even garages and gasoline filling stations can use this unit safely for it does away with the open flame and noxious flue gases inherent in the old type steam cleaners, fired with gas or oil. The Speedylectric Steam-Jet Cleaner operates silently and efficiently delivering steam to the cleaning nozzle where, under fingertip control of the operator, a soap solution, solvent or detergent is added

and atomized with the high pressure steam as it impinges at jet velocity on the surface to be cleaned. This new unit features a pressure tank which assures a positive flow of detergent or solvent to the nozzle, at desired rates and pressures. Thus high ceilings, tall machines, and large equipment may be steam cleaned without the height limitation encountered where the ordinary siphon or lifting type nozzle is used. The unit is easily portable weighing about 400 pounds, and is mounted on an all steel dolly with ball bearing rubber tired swivel casters. Included with this equipment are high pressure steam and detergent hose, nozzle and controls. Floor space required is 26 by 42 inches. Operates on AC current, 220 volts and over, single or polyphase. Boiler has capacity of 28 k. w., is A. S. M. E. National Board stamped, Underwriters' Laboratories listing.

#### Clark Mfg. Co. Introduces Its New 60 Steam Trap

Clark Mfg. Co., Cleveland, Ohio, maker of steam and fluid controls and steam specialties, has introduced a new small, versatile, low-cost steam trap for efficient drainage of tracer lines, drying cans, drum dryers and similar equipment. Known as the Clark 60, it is furnished with various size seat orifices for working pressures up to 150 P. S. I. and temperatures up to 375° F. This small inverted bucket type steam trap embodies such big trap features as a positive-seating guided disc which is free-swinging, self-aligning and operates with mini-

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mum friction. The disc always remains centered with seat opening. A simplified piping arrangement features a choice of horizontal or vertical connections at either inlet or outlet or a combination of both. This makes the new Clark 60 easily adaptable to many uses with a minimum of pipe rearrangement.

### New Edition Of Booklet On Water Demineralizers

The 26-page booklet, "FILT-R-STIL Demineralizers Deliver Low-Cost Chemical Equivalent of Distilled Water," has just been reissued in a revised edition by American Cyanamid Co. This two-color, profusely illustrated booklet, first issued about a year ago, cites the advantages of demineralized water over distilled water, describes briefly the chemical and mechanical principals of demineralization by ion exchange, and gives data on calculating costs for demineralizing various raw waters. In this revised edition, the pages devoted to cataloging the standard

demineralizers offered by the company have been revised to include the latest changes in specifications, models available, and performance data for each of the units. Copies of the revised booklet are available without charge from American Cyanamid Co., Ion Exchange Products Department, 30 Rockefeller Plaza, New York 20, N. Y.

### Cloverleaf-Freeland Corp. Develops Take-Up Shaft

Cloverleaf-Freeland Corp. of Hazleton, Pa., manufacturer of the well-known Cloverleaf-Freeland bobbins, has announced the development of a new take-up shaft. The new take-up shaft has a molded barrel many times stronger than conventional shafts now in use and has aluminum alloy heads. It has been especially designed to withstand the extreme pressures of nylon and similar yarns. Features of the new take-up shaft include the following: Strength to withstand extreme pressures. No distortion, barrel remains concentric. It outlasts ordinary take-

up shafts. Resists moisture, oils and grease and can be cleaned quickly and easily. The new Cloverleaf-Freeland take-up shaft was developed after months of research and tests made under actual operating conditions.

### Calconyl Double Solutions Available For Textiles

A new line of dyes, Calconyl Double Solutions, has been introduced by the Calco Chemical Division, American Cyanamid Co. Calconyl Double Solutions are stabilized azoic dyes requiring acid aging, recommended especially for cotton printing but can be used on viscose. The new line of yellows, reds and scarlet are reported to be most desirable because of their excellent brightness and economy in full shades. Reports indicate that Calconyls produce heavy bright shades of very good fastness to light, washing, chlorine, perspiration, dry cleaning and hot pressing, and offer a wider range of shades in the same pattern than are obtainable when printing on naphthol-prepared ma-

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terial. It has been pointed out that they are satisfactory for use in patterns along with other acid aging types of dyes such as soluble vats or resin-bonded pigments. Calconyls are reported to be very stable under normal conditions and will not precipitate or separate on long standing in the color shop.

A Calco color announcement of the Calconyl Double Solutions has been prepared for distribution to the textile industry. Copies may be obtained from Calco representatives or by addressing requests to the Advertising Department, Calco Chemical Division, American Cyanamid Co., Bound Brook, N. J.

A new Calco Technical Bulletin No. 804, "The Properties And Applications Of Ultramarine Blue," has also been announced by Calco. The paper discusses the early history of the natural color pigment and the introduction of its artificial counterpart. It discusses the complex composition of Ultramarine Blue, its chemical and physical properties, as well as the theories which have been advanced to account for its blue color. The importance of the pigment in protective and decorative coatings, printing inks and related applications, is pointed out and attention is called to the basic principles which should guide the formulator in using Ultramarine Blue.

## Eriez Magnetic Separators Are Described In Catalog

A new eight-page, two-color catalog de-

scribing the complete line of Eriez permanent non-electric magnetic separators, is now available. Complete specifications regarding weights, sizes and strength comparisons for various types of plate magnets are given as well as tables of operating capacities for permanent magnetic pulleys, drums, pneumatic line assemblies and pipeline traps. All types of magnetic equipment are fully illustrated through the use of photographs and engineering drawings. Engineering service and laboratory facilities offered by the company, are also discussed. To receive your copy, write for catalog No. 12, Eriez Mfg. Co., 306 East 12th Street, Erie, Pa.

## Quiz On Management Skill Is Published By A. M. A.

The American Management Association has published two quizzes by which supervisors, foremen and higher executives can test their knowledge of management principles. "What's Your Management I. Q.?" is designed to enable executives, supervisors, and foremen to appraise their knowledge of managerial principles and their ability to train and lead workers. It tests for knowledge of principles of organization, basic literature of management, methods of training, and psychology of leadership. With "Self-Analysis Quiz for Supervisors and Executives," a much longer test, higher-level supervisors, executives and those who aspire to such positions can score themselves on knowledge of executive work. Its questions range from marking true or false statements to selecting the best method for handling problems involving subjects

from employee relations to organizational structure. Copies of these tests are available for distribution to supervisors, executives and students at cost in quantity lots from the headquarters at 330 West 42nd Street, New York 18, N. Y.

Other association literature available includes: Production Series No. 171, "Guides to Management Operating Policy;" No. 172, "Planning and Administering Effective Incentives;" No. 173, "Modernizing Manufacturing and Production Controls;" No. 175, "Labor-Management Co-Operation for Increased Productivity;" No. 176, "Organizing for Efficient Production;" No. 177, "Production Costs and Breakeven Points;" Packaging Series No. 22, "Fitting the Shipping Container to the Product;" and Packaging Series No. 23, "Better Export Packaging — Improved Loading;" Personnel Series No. 116, "Strengthening Management's Channels of Communication," and Personnel Series No. 108, "Checking the Effectiveness of Employee Communication."

## Drinking Water Coolers Promoted In Booklet

A free copy of a 24-page booklet showing the need for properly cooled, good, pure drinking water, is available for the asking. This booklet, entitled, "The Water Cooler Story," has been recently published by the Drinking Water Cooler Association. It is not a sales booklet and deals only with the need for and value of pure drinking water as an aid to health, vitality, efficiency, morale and good will. It points out the value of water coolers and gives typical

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A durable, economical closet for Mills, Factories and all types of industrial installation. A real example of VOGEL QUALITY that will give years of economical, trouble-free service.

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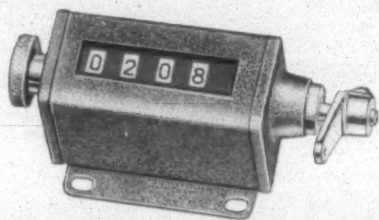
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plans for suggested installations as well as the various types of units. Secure a free copy by writing to Refrigeration Equipment Manufacturers Association, 1107 Clark Building, Pittsburgh 22, Pa.

### Durant Adds New Counter To Productimeter Line

The Durant Mfg. Co., 1957 North Buf-fum Street, Milwaukee 1, Wis., announces the addition of new "Y" reset stroke and rotary counters to their line of producti-meter counting and measuring machines. The "Y" series comprises several models that are small and compact, and require a minimum of driving effort. They are accu-rate and durable, designed especially for incorporating as an integral part of business machines and textile machines. Both the stroke and rotary models are available in reset and non-reset styles, in three, four, five and six figures capacity. The length of the case ranges between 1 1/6 inches and 2 1/4 inches, depending on the number of figures; the width is .960-inch and the height 1.238 inches.



The figures on "Y" counters are black on white background, .166-inch high by .097-

inch wide. They are clear, legible, baked on the metal surface. Bearings are oil-less automotive type. Stroke style counters have a patented ratchet, non-slip pawl drive mechanism, while the rotary style has a sleeve clutch mechanism that assures posi-tive drive and easy resetting. Shafts are of stainless steel; number wheels have steel running parts. The plexiglas window gives clear visibility and is non-breakable. The operating lever on stroke units is bright plated brass with positive grip. A single turn of the knob resets all figures to zero. The finish is attractive black wrinkle enamel.

The "Y" series offers manufacturers and processors an entirely new line of producti-meters to meet specific requirements for a small-sized counter. Original equipment manufacturers will find them of particular value for built-in application. The design and construction of "Y" counters follow the productimeter policy of quality materials and workmanship to give users dependable count and long service, the company claims.

### Attitudes Of Foremen Revealed By Survey

Training, disciplining and discharging employees were ranked by foremen as their three most difficult supervisory duties, according to a survey of 5,000 foremen conducted by *Foreman Facts*, a publication of the Labor Relations Institute, New York. The survey was a mail questionnaire based on a "random" sample and brought a 43 per cent return—considered an unusually high percentage for a mail questionnaire. A copy of the Foreman Facts Survey, including a

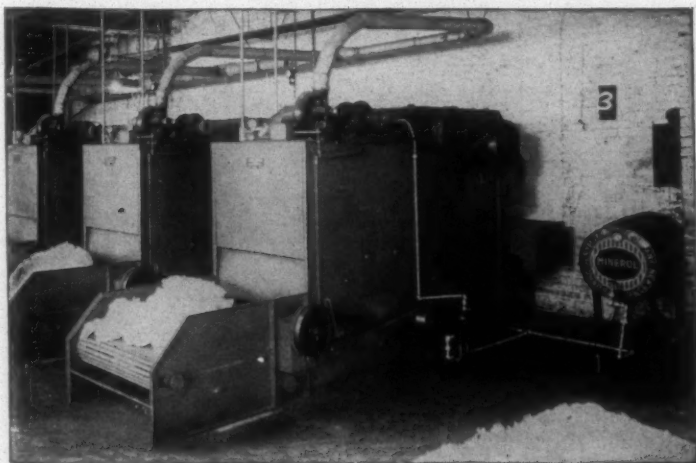
complete statistical breakdown, may be ob-tained by writing to the Labor Relations In-stitute, 1776 Broadway, New York 19, N. Y. The institute also offers a check-list spell-ing out employers' employment obligations under the Selective Service Act together with a question-and-answer analysis of the new draft law.

### Textile Brush Catalog Offered By United Shoe

Available from United Shoe Machinery Corp., Boston, Mass., is an attractive new catalog describing its extensive line of Fel-ton-Made textile mill brushes. More than 35 types of brushes commonly used by the textile industry are listed. Complete speci-fications and illustrations of each are con-tained in the 16-page booklet. The Felton line which ranges from small hand to large machine brushes, has been standard through-out the textile industry for many years. Copies of the new catalog, titled "Textile Mill Brushes," are available on request from the United Shoe Machinery Corp., 140 Federal Street, Boston 10, Mass.

With the market generally cool to new issues of stocks and bonds, many smaller companies are being faced with the imme-diate necessity of finding other avenues to raise working capital to meet today's soar-ing costs and prices. "Financing Your Busi-ness Today" is the title of a study of the problem recently promulgated by the Re-search Institute of America, Inc., 292 Madi-son Avenue, New York 17, N. Y.

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## Carded Yarn Group Meets Nov. 17

The Carded Yarn Association will hold its annual meeting Nov. 17 at Charlotte, N. C., with Dr. Claudius T. Murchison, president of the Cotton-Textile Institute, Inc., and U. S. Senator Clyde R. Hoey of North Carolina, as the principal speakers. E. Owen Fitzsimons is president and treasurer of the yarn group. The opening session of the event is scheduled to begin at 10:30 a. m. at the Hotel Charlotte, with Dr. Murchison as speaker. Senator Hoey will address a luncheon session. After reports have been made by E. N. Brower of Rockfish-Mebane Yarn Mills, Hope Mills, N. C., chairman of the board of the association, and Mr. Fitzsimons, the membership will elect officers and seven new directors from nominations submitted by the executive committee. The board of directors will hold a business session the evening of Nov. 16.

## One-Step Wool Opening Machine

Proctor & Schwartz, Philadelphia, Pa., textile machinery manufacturer, has begun the production of a new, continuous wool opening machine said to reduce to a single step the functions normally accomplished by two or three units. Although slower in operation than standard wool opening equipment, the firm's engineers claim the new unit gives about double the production of regular opening machinery and decreases noilage. First three of the units have been installed at East Weymouth (Mass.) Wool Scouring Co. The original machine went into East Weymouth two years ago. The firm is taking orders for units in two sizes. One will

be six feet wide and the other four feet wide. Output of the smaller machine ranges from 2,600 to 5,300 grease weight pounds an hour. The machines can be built in single or double sections, it is reported.

## Safety Congress Textile Session Outlined

Eleven prominent speakers will be heard during the one-and-one-half day session of the Textile Section at the 36th National Safety Congress and Exposition Oct. 18-22, in the Congress Hotel at Chicago, Ill. Meetings of other sections of the convention and exhibits will be in the Stevens, LaSalle, Morrison and Sherman Hotels. The opening meeting Oct. 19, will hear E. G. Padgett, safety engineer, Employers' Mutual Liability Insurance Co. of Wisconsin, Charlotte, N. C., general chairman. This is to be followed by presentation of the Textile Section safety awards of 1947-1948, after which new officers will be elected.

Dr. William G. Thuss, Thuss Clinic, Birmingham, Ala., will talk on "Industrial Hernias." John Scott, Jr., personnel director, Rocky Mount (N. C.) Mills, will conclude the Tuesday meeting with a talk on "Safety, Your Best Personnel Program."

Frank Oglesby, industrial hygienist, Tennessee Eastman Corp., Kingsport, Tenn., will open the synthetic fibers session Oct. 20, with a talk on "Hazards of Toxic Chemicals." Robert Barr, safety supervisor, Industrial Rayon Corp., Painesville, Ohio, next will discuss "How We Introduce New Employees to Safety," after which W. B. Carter, safety supervisor, American Viscose Corp., Front Royal,

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Va., will speak on "How Our Eye Protection Program Functions." The closing talk that afternoon on "A Pattern for Safety," will be delivered by D. C. Duncan, system safety supervisor, Appalachian Electric Power Co., Bluefield, W. Va. J. D. Brown, Safety director, American Enka Corp., will preside.

Thursday afternoon, Oct. 21, will hear Dr. Hedwig Kuhn, Hammond, Ind., secretary, Joint Committee on Industrial Ophthalmology, talk on "Industrial Eye Problems in the Textile Industry." This will be followed by Gene Miller, senior statistician, National Safety Council, Chicago, on "Standard Method of Injury Reporting." A panel discussion on "Getting Results with Safety Incentives," will be led by Glenn Penland, director of training and safety, Erwin Cotton Mills Co., Durham, N. C., in which J. Frank Hay, safety and training director, Rocky Mount Mills, will be a participant.

### Saco-Lowell Makes Plans For New Plant

The Edwards Co. of Sanford, N. C., a division of Indian Motorcycle Co., which has been purchased by the Saco-Lowell Shops of Biddeford, Me., is to be known as the Edwards Division of Saco-Lowell Shops. Saco-Lowell will produce combers and lap winders at its new North Carolina facility. Initial production is scheduled to begin in the near future and officials expect to reach full production by March of next year. Saco-Lowell has purchased about 30 acres of land surrounding the 61½ acres covered in the purchase of the Edwards Co. property, believed to have been acquired for possible future expansion of operations.

### Clemson Textile School Graduates 18

Bachelor of Science degrees have been presented to 18 Summer graduates from the School of Textiles at Clemson College, Clemson, S. C. Most of the men have already been placed in industry, it is revealed. The graduates, their home town, and the organizations that they will go to are:

Gordon S. Davis of Greenville, S. C., Union Buffalo Mill, Union, S. C.; Cecil B. Frick of Clifton, S. C., Waverly Mills, Laurinburg, N. C.; Charles H. Glenn of Greer, S. C., Victor Mills, Greer; Richard C. Hendrix of Greenville, in-

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structor, Clemson College School of Textiles; Harry B. Iler, Jr., of Greenville, Central Laboratory, J. P. Stevens Co., Greenville; Frank K. Jones, Jr., of Newberry, S. C., Burlington Mills, White Sulphur Springs, W. Va.; Broadus B. Williams of Daisy, Tenn.; U. S. Rubber, Burlington, N. C.; George L. Hodges, Jr., Anderson, S. C., American Thread Co., Clover, S. C.; John W. Kimman, Jr., Fredericksburg, Va.; E. I. du Pont de Nemours & Co., Inc., Martinsville, Va., and E. Burton May, Asheville, N. C., American Thread Co., Clover, S. C. Students graduating but who have not decided on places of employment are: Charles D. Stradley of Greenville; Harry H. Williams, Jr., of Orangeburg; Holmes W. Fowler of Union; Robert F. Hayes, Jr., of Chester; John E. Koopman of Spartanburg; George W. Mazingo of Rock Hill; Irving Abrams of Greenville, and Harold H. Arnold of Woodruff, S. C.

### Shippers Accountable For Soiled Bales

A cotton shipper can be billed for the extra expenses of putting into condition cotton bales stained by painted bale ties, according to a recent decision by the Southeastern Appeal Board, composed of representatives of cotton manufacturers and cotton shippers. The decision, which was announced by F. Sadler Love, secretary of the American Cotton Manufacturers Association, was the result of arbitration in a case in which a mill rejected 25 bales of cotton which were smeared with an asphalt base paint, a coating used on the bands binding the bales. The unanimous decision by A. K. Winget of Albemarle, N. C., C. P. Mathewes of Spartanburg, S. C., and J. Robert Lindsay of Greenville,

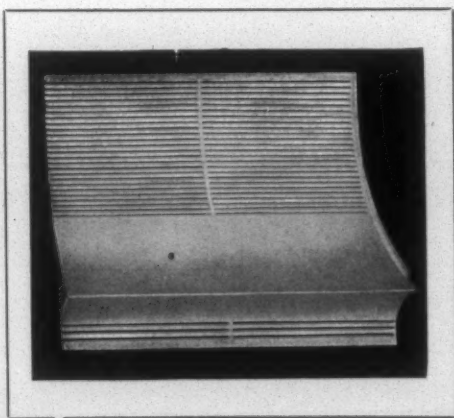
S. C., who composed the board, was: "It is our opinion that Section 41 of the Southern Mill Rules as amended covers this situation. However, it is trade practice of many years standing that in such cases the buyer accepts the cotton in question; putting it in proper condition and it is our decision that the buyer accept the 25 bales in question, billing the shipper with that part of the cost incurred by reason of this damage, which is over and above their ordinary costs in preparing a bale of cotton for use."

### Steel Heddle Co. To Open New Plant Soon

Celebrating its 50th anniversary, the Steel Heddle Mfg. Co., manufacturer of loom harness equipment, announces the new modern plant now under construction for the Southern Shuttles Division at Paris Station, Greenville, S. C., will officially open its doors in early October. Headquartered at Philadelphia, Pa., and with plants located at Greenville, S. C., Atlanta, Ga., and Montreal, Can., the addition of the Paris Station plant will enable this organization to improve on the services for which it has been noted during this past half century.

According to J. J. Kaufman, Jr., vice-president and manager of the Southern Shuttles Division of the Steel Heddle Mfg. Co., the erection of this modern, air conditioned plant, plus expenditures for new equipment and equipment transferred from the 621 East McBee Avenue plant in Greenville, S. C., brings the project cost to approximately \$750,000. The new plant is modern in every way and will double production capacity. A railroad siding on the plant property will speed the incoming materials and the handling of out-

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For new installations, for all rebuilding, for stock room replacements . . . Jenkins cylinders and screens help you reduce the high cost of manufacturing two ways. First, by increasing production and improving yarn quality . . . second, through longer life and trouble-free operation . . . for which Jenkins products are recognized throughout the industry.

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going products. An 85,000-gallon water tank extending 120 feet in the air will feed an extensive interior sprinkler system, and fire hydrants placed at strategic points provide maximum safety and fire prevention.

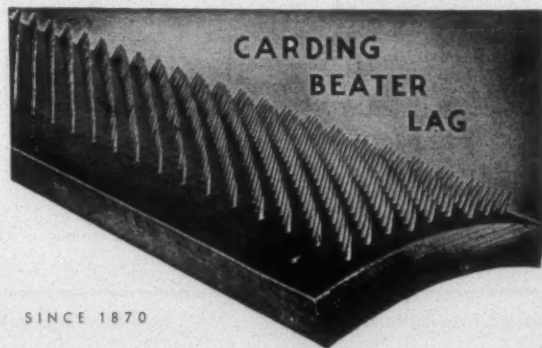
This modern one-story steel and concrete structure, being built by McKay-Helgerson Co. of Greenville, with its glazed tile walls and fluorescent lighting will provide a pleasant atmosphere for employees during working hours, and with operations all on one floor level, production will be streamlined for maximum straight line operating efficiency. Each end of the building will have a basement. One will be used as a cafeteria and employees' recreation room. The other will be used, as required, for additional plant manufacturing activities. Plant offices will extend in front of the rectangular structure.

The present plant on McBee Avenue will be used for the manufacture of pitch band and all metal reeds. The removal of shuttle operations to the new plant will supply the necessary floor space essential to rendering a continued high type of service to Southern textile mills and foreign markets on these products.

### May Resume Colorfastness Conference

According to Henry Miller of the Federal Trade Commission, there is a strong possibility that the Trade Practice Conference on Colorfastness of Textiles, which was started in 1942, will be resumed this Fall. Preliminary work for resumption of the conference, it is said, already is going on among several leaders and technical consultants in textile, dye, wholesale and retail industries. Two principal objectives which would be sought are appropriate nomenclature for use on labels to correctly describe the degrees of color-

## PINS and LAGS

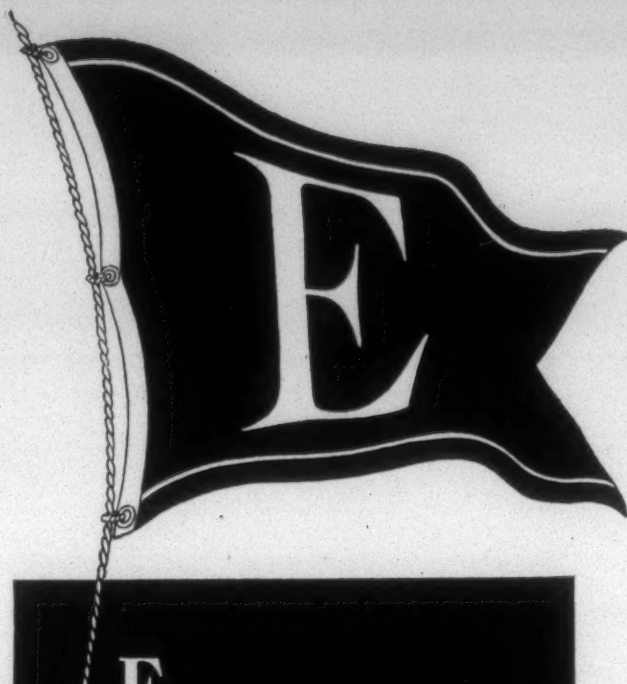


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fastness in relation to color destroying factors, and the matter of tests for evaluating end results which the consumer experiences in the use of garments. F. T. C. officials are hopeful that the conference this Fall, if it is held, will see adoption of rules for all the industry, although some persons in the textile and dye industries have expressed the opinion that satisfactory rules could not be formulated for at least a couple of years.

### Conference Considers Fair Trade Code

The approximately 150 persons attending the recent Federal Trade Commission conference in New York on trade practice rules to cover claims regarding shrink resistance of fabricated wool products concurred in the belief that such rules are necessary, but expressed sharp differences of opinion as to the final wording of such rules. An important fact in the mind of retailers and some of the manufacturers was the point that provisions made for labeling wool products must give a clear picture to the consumer as to what can be expected when finished garments are washed. It was pointed out that the suggested rules which call for designation of degrees of shrinkage would not make it mandatory for sellers to describe in laymen's terms approved methods of washability.

An accelerated method of test for shrinkage of wool textiles was presented at the conference as a possible alternative to CS59-44 by Dr. William E. Coughlin of Good Housekeeping Institute, who is chairman of the American Association of Textile Chemists and Colorists committee on dimensional stability. This procedure is expected to be adopt-

ed as tentative at a forthcoming meeting of the A. A. T. C. C. council. Henry Miller of the F. T. C. presided at the meeting and told those in attendance that their suggestions would all be taken under advisement and that final rules would not be made without due consideration of the points raised.

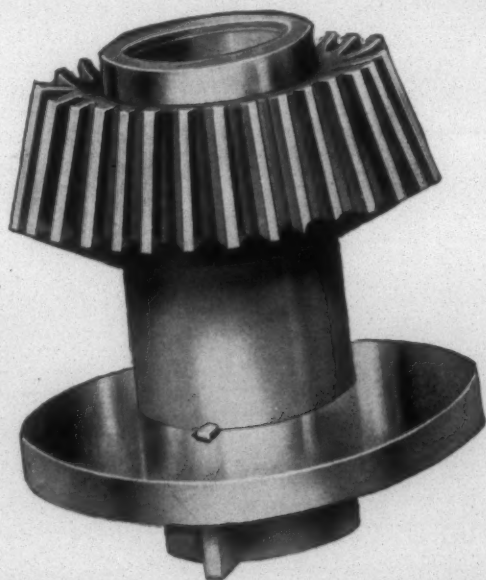
### Report Gives Fiber And Spinning Test Results

Recently made available to the industry is a 12-page report of the cotton branch of the Production and Marketing Administration of the U. S. Department of Agriculture entitled "Fiber and Spinning Test Results for Some Pure Varieties Grown by Selected Cotton Improvement Groups—Crop of 1948." Subjects covered include selection of areas and samples, test procedures, test results and basis for interpretation of test results.

### New Worsted System Devised By Saco-Lowell

Officials of Saco-Lowell Shops, Biddeford, Me., announce that the first adapted cotton machinery for spinning worsted fiber up to seven or eight inches may be a reality within a year. A complete new line of such machinery for worsted, with a staple length of about 3½ to four inches, has been installed at Wright Spinning Co., Westbrook, Me., it is reported. The new process reduces worsted operations, it is claimed, and eliminates the use of cans as yarn receptacles.

Extensive research and development work have gone into the equipment, but Saco-Lowell officials state there eventually may be important changes in the present system. The new straight-line equipment has just been released by the



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Saco-Lowell research staff for manufacture and will go into the production schedule "with a certain percentage of the total output being devoted to this worsted system," according to officials. The firm claims that satisfactory two and three harness gabardines, tropicals and serges that are acceptable to the leading manufacturers can be made from yarns spun on the new system.

#### A. A. T. C. C. Seeks Increased Research Fund

The American Association of Textile Chemists and Colorists is launching an intensive nation-wide drive for a 50 per cent increase in contributions to its research funds by member companies, it was made known Sept. 9 by Emmett Driscoll of Turner Halsey Co., chairman of the organization's national corporate membership committee. It is hoped to increase both the number of corporate members and their annual contribution by the 50 per cent figure, Mr. Driscoll declared, pointing out that while the present list of contributing member firms, numbering more than 300, represents a complete cross-section of the textile industry, there is much room for further expansion of the list.

Standards for consumer fabrics and testing methods to make them practical and usable constitute the major part of A. A. T. C. C. research, along with work on the application of dyes and finishes. It numbers among its membership of more than 5,000 nearly every chemist, dyer and technician in the textile field.

In the light of the increasing importance of tests and standards to a sound industry and to each individual company in it, Mr. Driscoll feels that many would be willing to

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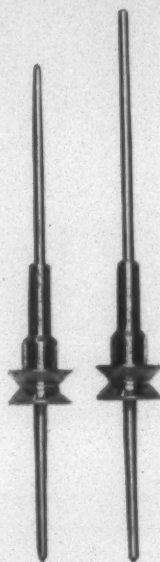
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defray the rising costs of such work, either by joining or increasing their contribution, if they checked up on what they were getting for their money. The campaign is being staged as a prelude to the 27th national convention in Augusta, Ga., Oct. 21-23, when once again a parade of technical papers will emphasize the broad scope of the research advance by the association and the industry as a whole during the past year.

### Pyroxylin Usage Shows Slight Increase

Pyroxylin spread in June totaled 3.5 million pounds, according to the Bureau of the Census, Department of Commerce. This was a slight increase over the amount spread in May, but is still below the amount spread in February when a downward trend set in. Shipments of pyroxylin-coated fabric materials remained at the May level of four million linear yards. Unfilled orders on hand June 30 amounted to 4.5 million linear yards, less than three-fifths of the amount on hand a year ago and only one-third of the amount on hand June 30, 1946. June, 1948, statistics summarize reports for 26 companies. Estimates are included for two companies whose reports were not received in time for tabulation.

### Rayon Broad Weaving Is Summarized

A total of 548 million yards of rayon broad woven goods was produced during the second quarter of 1948, according to the Bureau of the Census, Department of Commerce. This was one per cent less than in the first quarter but was 17 per cent greater than in the second quarter last year.

As indicated in the summary table below, production in all groups of rayon fabrics showed decreases from the first quarter except combination filament and spun rayon fabrics which was approximately one-fifth greater than in the preceding quarter. Production of silk, nylon, glass and other fabrics increased from 17 million yards in the first quarter to 21 million yards in the second quarter.

SUMMARY OF PRODUCTION, BY CLASS OF FABRIC

Type of Fabric	April- June, 1948	Jan.- March, 1948 (re- vised)	April- June, 1947*	Per Cent Change April-June, 1948, from—	
				Jan.- March, 1948	April- June, 1947*
				(thousands of linear yards)	
RAYON BROAD WOVEN FABRICS, TOTAL	547,557	553,150	467,651	— 1	+17
100 per cent filament rayon fabrics	338,627	343,958	299,478	— 2	+13
100 per cent spun rayon fabrics	96,292	102,353	71,159	— 6	+35
Combination filament and spun rayon fabrics	65,713	54,745	47,499	+20	+38
Pile, upholstery, drapery, tapestry, and tie fabrics	10,792	12,380	11,177	—13	— 3
All other rayon mixtures	36,133	39,714	38,338	— 9	— 6
SILK, NYLON, GLASS AND OTHER FABRICS	20,784	16,872	14,365	+23	+45

The data were obtained from manufacturers primarily engaged in weaving fabrics over 12 inches in width of rayon, silk, cotton, nylon and other synthetic fibers. All known manufacturers in the industry were canvassed. Based on the total of 107,610 looms in place on July 3, 1948, estimates amounting to 14 per cent of this total have been included for companies whose reports were not received in time for tabulation.

The majority of the fabrics in the 100 per cent filament fabric group showed small decreases in production from the first quarter of 1948 but increases over the second quarter of 1947. The production of 96 million yards of 100 per cent spun rayon fabrics was six per cent less than in the

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preceding quarter and 35 per cent greater than the second quarter of 1947. Production of twills, including serges and gabardines, amounted to 30 million yards in the second quarter of 1948, more than double the production in the corresponding period last year.

One hundred per cent nylon fabric production totaled eight million yards in the second quarter of 1948, 49 per cent above the first quarter and 53 per cent above the same quarter of 1947. Production of 100 per cent silk fabrics also showed a large increase, the four million yards produced in the second quarter being 36 per cent greater than in the first quarter and 136 per cent greater than in the second quarter of 1947.

There were 107,610 looms in place July 3, of which 95 per cent were active on the first shift, 89 per cent on the second shift, and 64 per cent on the third shift. The 151 million loom hours operated in the April-June, 1948, period was less than one per cent above the previous quarter.

### Combed Yarn Spinners Meeting Planned

The 23rd annual meeting of the Southern Combed Yarn Spinners Association, which has headquarters at Gastonia, N. C., and is under the direction of H. E. Rietz, executive secretary and treasurer, will be held on the afternoon and evening of Sept. 29 at the Charlotte (N. C.) Hotel. Elliott J. Neal, who will retire as president of the association this year, will preside over the meeting.

The members and guests will convene beginning at 2 p. m. in the combined Civic and Rose Rooms of the Hotel Charlotte. The evening session which will be highlighted by the annual banquet will start at 7 p. m. A special re-



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freshment hour will precede the banquet session. The principal speaker for the meeting to be heard at the evening banquet session will be George A. Sloan, chairman of the board of *Southern Agriculturist*, considered the leading farm publication in the Southern states. Mr. Sloan is well known to the cotton textile industry as a former president of the Cotton-Textile Institute, Inc., New York City. He will talk on the subject "Southern Agriculture and Industry Look Ahead."

During the afternoon session the membership and guests will hear from several distinguished speakers. Maj.-Gen. W. H. Middleswart, Chief of Military Planning Division, Office of The Quartermaster General, U. S. Army, Washington, D. C., will be the principal speaker for the afternoon and he will talk on military planning for industrial mobilization. Dr. Claudius T. Murchison, president of the Cotton-Textile Institute, will speak on the subject of the Washington legislative picture for the coming year. Percy S. Howe, Jr., president of American Thread Co., New York City, will talk and report on American production and consumption of long staple cotton. Walter S. Montgomery, president and treasurer of Spartan Mills, Spartanburg, S. C., will present to the members and guests a report-story on the work and aims of the Cotton Textile Mills Industry-Wide Committee on Public Relations.

Additional reports of interest will be made during the general business and discussion period on the afternoon program, among these being the reports of the president and the executive secretary and treasurer. The meeting will adjourn following report of the nominations committee and subsequent election and recognition of new officers and directors for the association for the coming year.

### New Du Pont Synthetic Fiber Named 'Orlon'

The Du Pont Co. has adopted the trade-mark Orlon for a synthetic textile fiber on which it has been conducting research for several years, and which has previously been known only as Fiber A. Technically the material is called a polyacrylonitrile fiber. Quantities required for the development work are being made in a laboratory-scale pilot plant.

Orlon acrylic fiber offers some properties which the company said are outstanding contributions to the textile industry. Its resistance to degradation by sunlight commends it for use in awnings, automobile tops, and other outdoor

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uses. Its resistance to chemical attack, particularly by acids, and its ability to withstand elevated temperatures fit it for use in filtration applications and chemical-resistant cordage and threads, it is claimed. The aesthetic qualities of fabrics made of Orlon are demonstrated in lovely household curtains which are easily laundered and resist deterioration by sunlight and atmospheric gases. The fabrics have a warm hand and are supple.

The development originated in the Pioneering Research Section of the Rayon Department in 1940 when work was begun on vinyl type compounds and their possibilities for fibers and films. Distribution is being handled by C. D. Wenrich in the New York office of the Du Pont Co.

### Lower Productivity Seen As Dangerous

"Unless the downward trend in output per employee per hour in the cotton textile industry is halted, it will be difficult, and perhaps impossible, to maintain the present favorable position of either the textile employees or the industry itself," G. E. Huggins, chairman of the committee, Textile Information Service, warned this month. "This becomes especially evident when it is recognized that the products of textile employees must meet the price competition of several other industries in this country as well as textile industries in foreign countries, the majority of which pay lower wages," Mr. Huggins said. "Productivity is the industry's major problem today."

"Government records show that the output per man-hour dropped from a level of 100 in 1939 to 92.3 in 1946," Mr. Huggins reported, "while a series of wage increases saw the unit labor cost go up from 100 to 227.9 in the same period. Higher output is the only sure means of meeting rising costs and competition. Increased productivity is a joint problem of the worker and the manager," Mr. Huggins emphasized. "Management's part is to furnish better machinery and the part of the employees is to use the machinery to greater efficiency."

"As fast as new machinery can be delivered, the industry is installing it," he said, "at a cost of some \$250,000,000 a year," adding that, "Along with the replacement of old equipment worn by heavy wartime use, the industry is also improving conditions under which the employee works." But Mr. Huggins noted that to carry out this modernization program successfully, "Capital is required and capital comes

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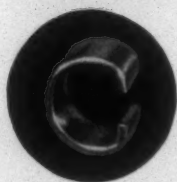
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from profits. The profits, in turn, must be largely reinvested in the industry in new machinery, equipment and plant improvement. To the extent that this policy of improvement can be followed, the industry and the jobs of its employees are both made more secure."

Mr. Huggins points out that in the cotton textile industry, despite an increase in money profits on the books since 1939, the return, after taxes, paid to stockholders in the form of dividends was less than one-third of the apparent earnings last year. A large part of the earnings were retained to help provide funds to carry out the modernization program. Against this, however, he noted that the machinery replacement effort is limited by rising costs. "Higher steel prices, advanced fuel costs, higher pay rates, increased costs of government and similar results of inflation have had their effect on the textile machinery makers with the result that the new model looms now cost more than \$750 compared with \$412 in the early 1920s; spindles that cost around \$7 each now command \$16 or more, while carding machines which once sold at prices ranging from \$675 to \$1,000 are now priced in excess of \$3,000."

In spite of these costs, the modernization program is being carried out on an increasing scale, according to Mr. Huggins. "But meanwhile," he said, "the lowered productivity rate constitutes the industry's No. 1 problem, a problem which cannot be solved without realization by the individual employees that his future security is staked in large measure on the ability of the worker and the manager to act as a team for higher, more efficient production."

### I. T. T. Announces New Class Personnel

Dean George H. Coleman of the Institute of Textile Technology, Charlottesville, Va., announced a list of 15 carefully-selected college graduates who will compose the second class to enter the institute. They reported Sept. 13 for a two-week period of indoctrination. These men, all of whom will attend the institute on scholarships, will work toward master of science and doctor of philosophy degrees, both of which the institute is empowered to grant. On Sept. 27 they were to be joined at the institute by last year's class members who have spent the Summer working in mills which are members of the institute.

The new class is composed of the following: Donald R. Aichner, Erie, Pa.; Edward Artim, Clifton, N. J.; Charles S. Baker, III, Cape May, N. J.; John S. Brice, Cedar Rapids,



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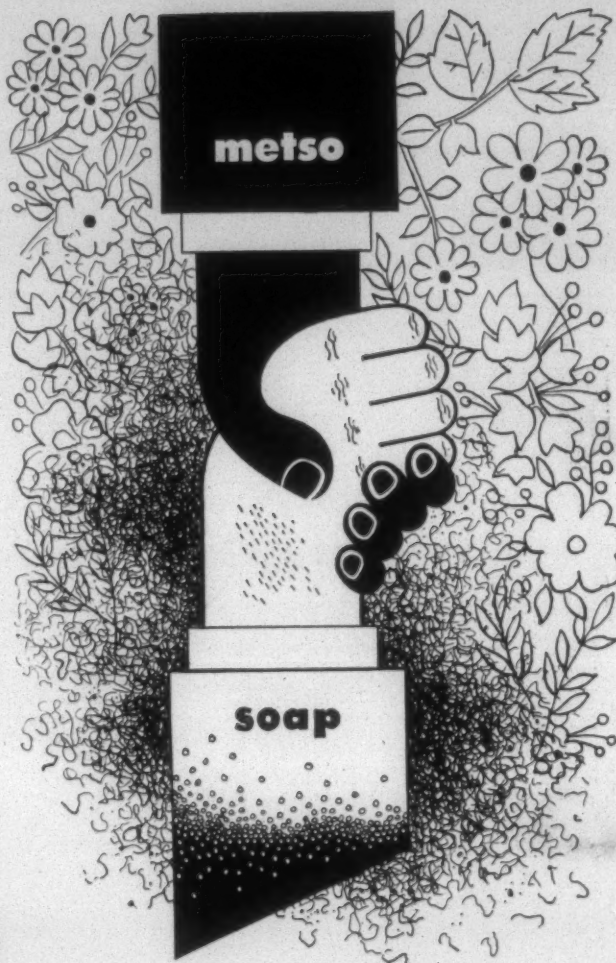
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Iowa; George M. Bryant, Anniston, Ala.; Richard L. Fowler, Spartanburg, S. C.; Claude F. Hughes, Jr., Roanoke, Va.; Joseph S. James, Jr., Richmond, Va.; Richard L. McCullough, Milford, Mich.; Charles B. Palmer, Rosedale, L. I., N. Y.; Stuart E. Penner, Lawrence, N. Y.; DeWitt R. Petterson, Roanoke, Va.; J. Steve Powell, Fort Worth, Tex.; James F. Sayre, Dunbar, W. Va.; and Norman W. Touchette, Belleville, Ill.

The Institute of Textile Technology is a co-operative research organization sponsored by a large number of member textile mills. It combines fundamental and applied research work with a teaching program on the graduate level. Each year a class limited to 15 students is admitted. In this way, the institute will provide a reservoir of highly-trained young men for the textile industry.

### Bahnson Teaching Maintenance Engineering

The Bahnson Co., air conditioning engineering firm of Winston-Salem, N. C., has launched a new program in the field of customer relations that has been enthusiastically received throughout the textile industry. On Aug. 25 a letter was addressed to some 50 mills in the Southeast where Bahnson equipment is in operation. This letter read in part: "We have been long faced with the problem of transmitting correct information to your maintenance engineers. It has been the practice in the past to submit publications to the mill, but we doubt very much whether the operating engineer and the maintenance men have either the time or the opportunity to read this information. Therefore on this basis, we are proposing a class for operating and maintenance engineers so that we can give them a full-



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As noted, there will be two complete classes of one week each. The first class is scheduled for Oct. 4-8; the second, Oct. 11-15. Registration so far indicates that there will be 50 operating engineers and maintenance men from the mills attending the first class, and 45 attending the second class. The classes will be held in the Robert E. Lee Hotel in Winston-Salem with instruction periods planned from 9 a. m. to 5 p. m. each of the five days to be followed by a two-hour discussion period in the evening.

Three general topics will be covered in the classroom periods: "Refrigeration and its Component Parts, Air Distribution and its Component Parts, and Controls." Specific subjects under these three general headings will be taught by Bahnson engineers and representatives of the various companies whose equipment is used in Bahnson installations. The following companies will have representatives present to discuss their products: Worthington Pump & Machinery Corp., Wheeler Cooling Tower Co., Westinghouse Motor Mfg. Co., American Air Filter Co., Sporlan Valve Co., Minneapolis Honeywell Co., Johnson Service Co., Buffalo Forge Co., Standard Oil Co. and R. K. Hunter Co.

In addition to specific product discussions, Bud Nelson, business representative of *Air Conditioning and Refrigeration News*, will deliver a talk. F. Boxall of the Bahnson Co. is scheduled to speak on the subject of "Water," and show a new General Electric film entitled "Clear Water," which was taken in North Carolina. There will also be a discussion and outline of the objectives and aims of the Refrigeration Service Engineers Society. Each class will conclude with a banquet on Friday evening with a prominent speaker on the program. Tentative arrangements call for the appearance of one of the South's best known humorists at these two affairs. The entire course is being offered by the Bahnson Co. at no cost to the mills participating. The only cost involved will be the living expenses of the

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men who are present. The program as outlined is far more extensive and complete than any ever attempted before, and there is every indication that it will be gratefully received by the mill men attending. The proceedings of this first series of classes will be the basis for what the Bahnsen Co. hopes will be an annual event.

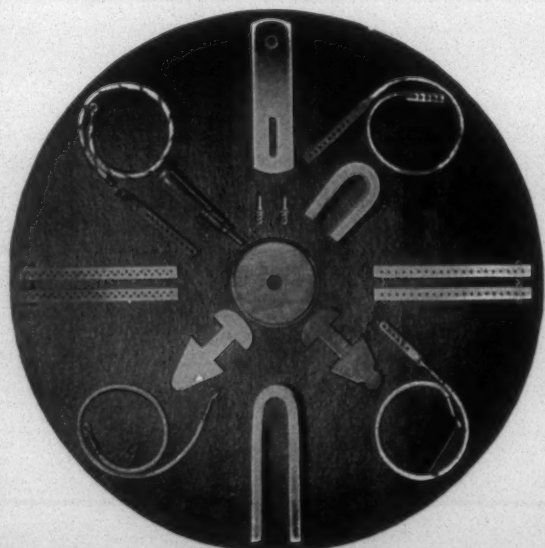
### Standards Association Is Incorporated

The American Standards Association became the American Standards Association, Inc., Aug. 2, through incorporation under the laws of the State of New York. This is the third in a series of changes which have consistently recognized the enlarging scope of the association's work.

Organized in 1918 as the American Engineering Standards Committee, a co-ordinating committee for the standardization work of five of the country's important technical societies, the scope and organizational setup were soon broadened to include associations and government agencies. This led to the extension of the work into the field of safety standards. In 1928, an entire reorganization took place, changing the committee into a full-fledged "American Standards Association," the nation's clearing house for standards and the U. S. medium for international contacts on standardization. The present change to an incorporated association again recognizes the enlarged activities and responsibilities of the organization, giving it and its members the protection and benefits which corporation law affords and which is considered essential in the light of the scope of the association's activities.

Bills seeking federal incorporation are now before Con-

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The association's co-ordinating functions now extend to standards in the mechanical, electrical, building, safety and consumer goods fields, as well as such general work as that on office equipment and abbreviations and symbols for use in engineering and scientific literature. Frederick R. Lack, vice-president of Western Electric Co., is president of the incorporated association. Vice-Adm. G. F. Hussey, Jr., (U. S. N., Retired) is secretary and administrative head, and Cyril Ainsworth is technical director.

### Drop In U. S. Wool Output Seen In 1948

The Department of Agriculture believes a sharp drop in shorn wool production by the United States is imminent. According to estimates of the Bureau of Agricultural Economics, the quantity of wool shorn and to be shorn in 1948 will be about 237,290,000 pounds. This figure is nearly 16,000,000 pounds, or six per cent, less than shorn wool production in 1947 and 116,000,000 pounds, or 33 per cent, below the 1937-46 average. Officials state that reductions this year are due largely to a decrease in the number of sheep shorn, since the average weight per fleece was only slightly smaller than last year.

### Jobs Sought For Physically Handicapped

National Employ the Physically Handicapped Week, to be observed this year Oct. 3-9 in compliance with an Act of Congress on Aug. 11, 1945, is a starting point for a year-round program for promoting a permanent solution of the problems of the disabled worker. Only a few physical abilities are required to do a given job. Most persons with handicaps are capable of performing many types of productive work. Properly placed workers with handicaps ask no special favors or preference—only a job and a safe one.

### Recent Patents To Carolinians

Recent patents issued to Carolinians relating to textiles follow, according to Paul B. Eaton.

Patent number 2,441,992 was awarded to Sherman Converse of Graniteville, S. C., on a dyeing apparatus wherein means are provided for dyeing all types of cloth, including unmercerized as well as mercerized cotton, and which will produce smooth, uniform dyeings of maximum fastness to

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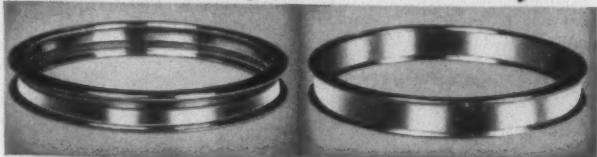
laundering with all types of dyestuffs. Heretofore, it has been impossible with many types of dyestuffs to produce a smooth finish, that is one in which there are no white specks in the cloth, which are caused by the presence of so-called "dead cotton" which is immature fiber, since a high temperature atmosphere, such as steam, will cause these white specks to appear if the dyed cloth is passed directly into such an atmosphere. He has, therefore provided a means for reducing the temperature of the cloth before it leaves the dyeing apparatus by passing the cloth through a suitable booster bath, and the temperature of the booster bath being kept below 120° F.

Another patent was awarded to Mr. Converse and Mr. Henry Woodhead, Jr., also of Graniteville, S. C., on a boil out apparatus where cloth is fed through a solution of caustic soda and then through squeeze rolls, and from the squeeze rolls, through a suitable liquid seal, into a closed compartment. The cloth is then subjected to steam passing through the same and through a plurality of wash boxes to wash all of the caustic soda and other foreign matter from the same, and then finally the cloth is passed into contact with a plurality of perforated pipes, through which hot water is forced at a temperature just below the boiling point, and then the cloth is passed through another suitable liquid seal, and when the cloth emerges from the closed compartment, it is clean and absorbent, and is in a suitable condition to be dyed, bleached, or bleached and dyed.

Dwight L. Moody, loom fixer at Drayton Mills, Spartanburg, S. C., has been granted a patent on a warp and harness stop motion for looms. The device operates at the top of

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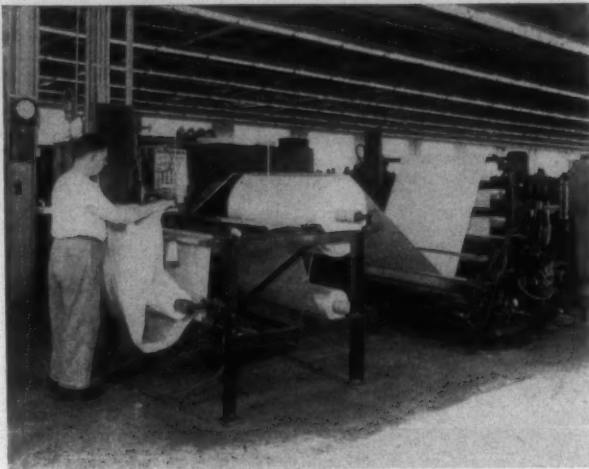
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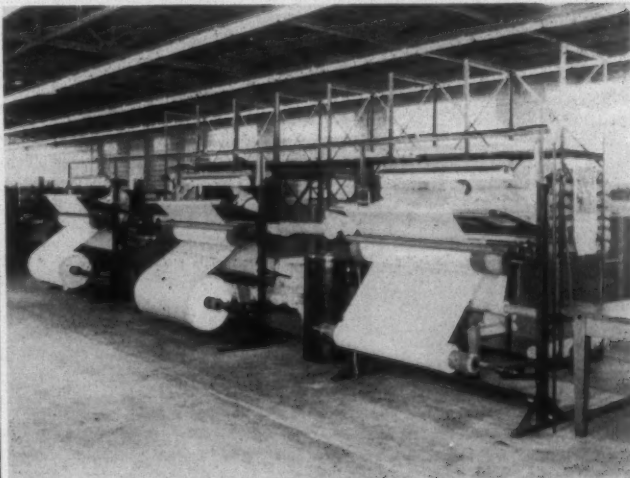
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two steel uprights which may be floor based or set upon the loom side. When a loom harness break occurs, a plunger is immediately contacted and sets the warp-harness invention into motion, resulting in automatic loom stoppage.

Arthur G. Hill of 310 Cary Street, Greenville, S. C., has been awarded Patent No. 2,440,339 for a new method of tinting and conditioning textile fibers and Patent No. 2,440,400 for a variation of the tinter which will apply oil to dry fibers along with the tint. The tinter and oiler operate fastened on picker machines in cotton and rayon mills. The rayon or cotton fibers pass underneath and absorb the fugitive tint that is easy to wash out later, soapy water at 180° will swish out the tint when the cloth is finished.

Patent No. 2,449,157 was awarded to William H. Bahan of Greenville, S. C., for an improved driving mechanism for looms. This driving mechanism comprises a driving motor with an idler shaft on which is mounted a pulley and this pulley has another pulley integral with the same and this second pulley is connected by a belt to a pulley loosely mounted on the crank shaft of the loom. There is a geared connection between the crank shaft and the cam shaft of the loom whereby all parts of the loom are driven in unison and he has provided a clutch mounted on the cam shaft and this is connected to the shipper rod of the loom. Thereby when the shipper rod is moved to stop the loom, the shipper rod will also move the clutch to open position.

Paul B. Wilson of Greenwood, S. C., was awarded a patent on a plastic bobbin. This bobbin is designed to overcome the defects of the ordinary wooden bobbin heretofore used in textile mills on spinning frames and the like. Most wooden bobbins have three rings clamped around the same which are employed for enabling the bobbin to be held in a shuttle in an automatic loom, and quite often the base of the bobbin cracks due to the fact that it is forced down over a tapering spindle in a spinning frame. These spindles usually revolve from 15 to 20 thousand times per minute and therefore the centrifugal force generated by the spindle will cause the base to spread and thereby loose friction on the spindle and thus the bobbin will not turn the required number of times.

### Textile Men Attend Personnel Conference

A number of representatives from the textile industry took a prominent part in the seventh annual Southeastern Personnel Conference held at Duke University, Durham, N. C., Sept. 1-2. J. C. Thomas of Fieldcrest Mills, Spray,

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N. C., presided over the sessions as chairman of the conference committee and Dr. Frank T. deVyver of Erwin Cotton Mills, Durham, was secretary-treasurer of the conference. Among the speakers were Dr. William McGehee, director of personnel research and training with Fieldcrest Mills, who discussed "The Use of Tests in Employment," and Dr. Henry C. Grant, director of personnel selection and training at York Knitting Mills, Toronto, Canada, whose subject was "The Clinical Interview in Personnel Selection."

### Textile Research Institute Meets Nov. 18-20

"Better Textiles From Basic Research" will be the theme for the annual meeting of the Textile Research Institute, Inc., to be held Nov. 18-20 at the Waldorf-Astoria Hotel in New York City. Leaders in retailing, designing, research and education have been invited to speak at the event. First day of the session will be "Scientific Day" and will be directed by Dr. John H. Dillor, T. R. I. director of research. The second day of the parley will be "Institute Day" and will be under the chairmanship of H. Wickliffe Rose, chairman of the board of trustees. The final day of the event will be "Laboratory Open House Day" and a limited number of guests will inspect the T. R. I. research facilities at Princeton, N. J.

### Celanese To Hold Prices Through October

Celanese Corp. of America, the nation's largest producer of acetate rayon yarn, announces that it will maintain prices on its acetate rayon yarn and staple fiber for October. Celanese will maintain the same prices which have prevailed since December, 1947. In recent weeks several large viscose rayon yarn producers have raised prices.

The Du Pont Co. has announced upward adjustments of nylon yarn and staple prices, averaging seven per cent, effective with all new business booked on or after Sept. 10. Upward adjustments are also being made on a few viscose process rayon yarn items, the over-all effect being less than one per cent. No change is being made in acetate yarn and staple prices.

### Council Begins 1948 Finance Campaign

Participation of cotton industry members in the 1948 finance campaign of the National Cotton Council is well ahead of last year, Council President Harold A. Young has

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Jim*

announced. Mr. Young called upon cotton farmers, ginners, warehousemen, cottonseed crushers, merchants and spinners to back the research and promotion activities of the council in cotton's behalf.

"The need for united effort in the cotton industry is greater than ever before," the council president declared. "Competition for fiber markets is increasing not only in the United States but abroad as well. The huge 15,219,000-bale cotton crop, forecast for 1948, emphasizes the necessity of the council's fight to preserve present markets and to develop new outlets for cotton and cottonseed."

### Calco Offers New Bulletin On Nylon Dyeing

A paper, "Studies of Nylon Dyeing: Effect of Dyeing Procedures," has been published as a technical bulletin by the American Cyanamid Co., Calco Chemical Division, Bound Brook, N. J. Techniques and methods developed in the Calco laboratories for the investigation of the dyeing of wool, rayon and other fibers, have been applied in this study of nylon. Exhaustion data determined by a time-temperature technique and the penetration and location of dye in the fiber, determined by microscopical methods, have been correlated with methods of application and the tinctorial values of the final dyeing.

This study endeavors to arrange the laboratory experiments and presentation of data in a manner which would be most useful to the dyer and which would reveal the progress of the dyeing action. The dyes for which data are given were chosen to include each classification used in practice at present. The time intervals, temperatures and the measurements of exhaustion and color value were chosen with reference to plant operation, to permit the practical application of the experimental results. A copy of Calco Technical Bulletin No. 798 may be obtained by addressing your requests to the Advertising Department, American Cyanamid Co., Calco Chemical Division, Bound Brook, N. J.

### Fund Set Up By Comer Estate

The University of Alabama has received a scholarship fund valued at approximately \$240,000 from the estate of the late Edward T. Comer, founder of the Bibb Mfg. Co. of Macon, Ga. The bequest came to the university following settlement of matters of the estate after the death of Mr. Comer's widow, Mrs. Georgia Shackleford Comer. The university received 4,592 shares of Bibb stock with a cur-



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rent market value of about \$240,000, to be used as a loan fund for "deserving students to be returned when they have become self-supporting." This gift is one of the largest to be received by the university for scholarship purposes.

### New Kellogg Loom To Be Mass Produced

The M. W. Kellogg Co. of New York announced Sept. 8 that installation of the new automatic mass production assembly line for volume output of the new Kellogg loom now is under way. This involves not only the setting up of the automatic mass production assembly line, but also the installation of machinery to manufacture unit parts. The announcement came in the form of a statement by H. R. Austin, president of the M. W. Kellogg Co., who stated that "a wide range of major equipment for the assembly line has been delivered and now is being erected," at the company's shops in Jersey City, N. J.

During the preliminary and introductory period of the loom, it was produced on a pilot assembly line. This pilot assembly set-up had two main purposes: (a) to produce a sufficient quantity of tryout looms which were sent to mills to be tested under a variety of mill operating conditions; and (b) to provide the data needed for the designing of a modern mass production assembly line.

"This pilot line," Mr. Austin added, "now has served these original purposes and is being discontinued. During the period of small-scale assembly several hundred looms were produced and shipped to mills for test. These tests proved most helpful. As might be expected in the introduction of any such new machine, the operation of the test looms in the mills brought to light several features which failed to give optimum satisfaction under mill operating conditions. Operators in mills where tests were conducted have pointed out these features and in many cases have made valuable suggestions for improvements in design. These changes are now being put into effect in our loom engineering department, simultaneously with the erection of the mass production assembly line. It is expected that the design changes will be completed by the time the mass production line is ready for operation, at which time we will go forward into volume output."

More than 10,000 World War II veterans are training under the G. I. Bill for jobs in the textile industry, a Veterans Administration survey revealed.

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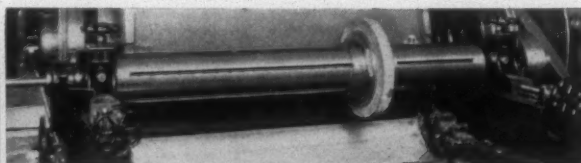
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## Worth Street Slow, But Hopeful

Business in Worth Street's cotton textile market has slipped into the biggest slump since before the war, according to reports from New York City.

Prices have slid downward, and one industry spokesman says that "right now buyers are not interested in goods at any price."

But most mill sources were optimistic that business would revive after Labor day. They say the industry has simply resumed its normal operating program—that things always have been slow in July and August. "All this will be forgotten in September and October," said one industry spokesman. "Buyers will be back in the market and operations will start back to a higher level."

Mill executives said curtailed work weeks have developed in some types of goods, but described that situation as "spotty." He said there is a surplus of some kinds of cotton goods, an ample supply of others, but there are some still in short supply.

They base their expectation of better business in the last quarter of this year on the high level of national income and also the fact that many manufacturers and retailers began the Summer with heavy stocks.

Another said that mills today cannot afford to produce for inventory. "It is too hazardous" at today's level of costs, he added. "Before the war mills were likely to keep operating and to sell the goods for what the market would bring," an industry spokesman said. "That's the reason they didn't make any money."

## Broad Woven Output Down Slightly

Production of cotton broad woven goods totaled 2,539,000,000 yards in the second quarter of 1948, a drop of two per cent under output in the first quarter of this year, the Census Bureau has reported.

Cotton tire cord and fabric production decreased from 88 million pounds in the first quarter to 80 million pounds in the second quarter. The 60 million pounds of rayon and nylon tire cord and fabric produced in the second quarter this year was one million pounds less than the preceding quarter.

Of the 392,000 looms in place July 3, 1948, the Census Bureau said, 381,000 were active on the first shift, 362,000 on the second, and 199,000 on the third. Loom operation totaled 528,000 hours, two per cent below the total loom hours operated during the first quarter of 1948.

Total yarn consumed in production of cotton broad woven goods and tire fabrics amounted to 926 million pounds, of which 862 million pounds were cotton, 58 million pounds were rayon, and six million pounds were other fibers.

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## Cotton Crop Set At 15,219,000 Bales

A bumper 15,219,000-bale cotton crop, worth about \$2,785,000,000 at current prices at the farm, was forecast Sept. 8 by the Department of Agriculture. Such a dollar return would be the biggest on record—half a billion dollars more than last year.

The new 1948 cotton crop forecast is 50,000 bales more than the 15,169,000 bales predicted a month ago. It is one of the biggest crops on record. It compares with 11,851,000 bales produced last year and a ten-year average production of 12,014,000. The farmers and the weather did it.

Yield per acre, computed at 313.2 pounds of lint, promises to set a new record, the Agriculture department said.

One cotton expert guessed there is not much chance that the 1948 dollar return can go much below the big figure, for the price now is down near the price support level. The price is lower than last year, but the production is expected to be roughly 3,500,000 more bales than 1947.

The department estimated 23,323,000 acres will be harvested this year, compared with 21,148,000 last year and about 23,845,000 for the ten-year average. Acreage in cultivation July 1 which is expected to be abandoned was put at 1.4 per cent. Abandonment last year was 1.1 per cent and the ten-year average was 1.9. The crop condition on Sept. 1 was put at 82 per cent of normal. It was 73 per cent at the same time a year ago, and the ten-year average for that date was 71 per cent.

In an accompanying report, the Census Bureau said 1,473,245 bales of this year's cotton crop had been ginned up to Sept. 1 compared with 682,109 this time last year.

## Cotton Consumption Figures Reflect Rise

The Census Bureau has reported that 728,732 bales of lint cotton were consumed during August, compared with 627,393 bales during July of this year and 712,864 during August of 1947.

Cotton spindles active during August numbered 21,352,000, compared with 21,328,000 during August last year. Broken down, this total shows 16,832,000 for both August and July this year in cotton-growing states against 16,610,000 for August last year; and 4,112,000 in August and 4,085,000 in July this year, against 4,172,000 in August last year in New England states.

Lint cotton on hand Aug. 31 included: in consuming establishments, 1,246,848 bales compared with 1,155,481 on the same date last year; in public storage and at compresses, 1,723,616 bales compared with 840,201 on Aug. 31, 1947.

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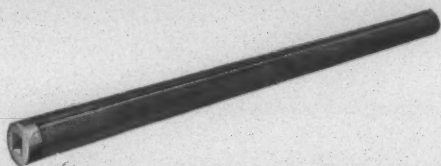
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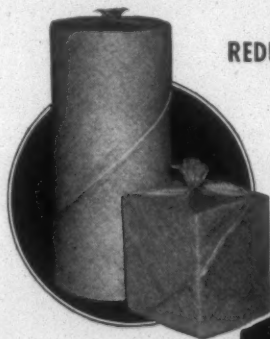
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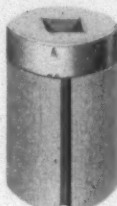
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#### WANTED

Assistant Overseer of Spinning,  
large Alabama mill.

Reply to "M. C. D.," care Textile Bulletin,  
P. O. Box 1225, Charlotte 1, N. C.

POSITION WANTED as Overseer Weaving or Assistant Superintendent. Now employed as Overseer Weaving in Southern Mill. Age 33; married; energetic; and strictly sober. Know costs and standards and how to deal with labor. Prefer Piedmont section. Request personal interview. Reply "E-87," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

POSITION WANTED—Carding Overseer; specialized, proven ability. 18 years on combed and carded work. Age 45; family; good health. Fine references in and out of mill. South. Short notice. Write "South," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

POSITION WANTED as General Overseer, Assistant Superintendent or Superintendent. A graduate of North Carolina State College Textile School in Textile Manufacturing; practical experience in all departments of carding, spinning, twisting, dyeing and weaving on both coarse and fine goods, plain and fancy fabrics. Good manager of help, also cost and production man. Age 39; can furnish the best of references as to character and ability from former employers. Reply "A-29," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

WANTED—Position as overhauler on E. K. L. M. Model Loom. 25 years experience, now employed, but desire change. Can give good references. Write H. C. Starnes, Box 445, Rock Hill, S. C.

WANTED—Position as Superintendent of Yarn Mill or Overseer of Carding or Spinning. Have several years' practical experience. Can give best references. Will come on short notice. Write "S. C. M.," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

WANTED—Position as card grinder, overhauler picker fixer, or fly frame fixer. Now employed but have good reason for changing. Best of references. Will go anywhere in Southeast. Reply to "B-100," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

EXPERIENCED WEAVE ROOM OVERSEER AVAILABLE: now employed but would like to make change; prefer Alabama or Georgia, but will go anywhere. Have had 12 years' experience as overseer—can handle weaving and slashing. Experienced on all types of Draper looms from E-Model to KD-Model, on plain and fancy work. Age 41, married; two years college education. Can give best of recommendations. Sober and reliable. Would like to hear from someone who is looking for a man to hustle his job. Write "S-Z," care Textile Bulletin, P. O. Box 1225, Charlotte 1, N. C.

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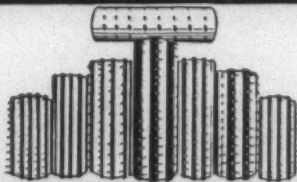
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Write "J. B. L." care Textile Bulletin,  
 P. O. Box 1225, Charlotte 1, N. C.

**POSITION WANTED**

Overseer or Assistant Overseer for Barber-Colman spooling, warping and slashing or warp preparations, 18 years' experience; now employed but desire change. Can come for interview and will furnish good references.

Reply "C-802," care Textile Bulletin,  
 P. O. Box 1225, Charlotte 1, N. C.

**POSITION WANTED**

by Overseer of Carding and Spinning. 17 years experience on all counts of yarns, also spun rayon. Now employed but desire change. Will come for interview and can furnish good references.

Reply "G-S. S." care Textile Bulletin,  
 P. O. Box 1225, Charlotte 1, N. C.

**WANTED**

Overseer or Second Hand for day job in charge of carding and spinning in small yarn mill. State full qualifications, age and salary expected. Experience on roller cards desirable, but not necessary.

Standco, P. O. Box 93, Houston, Tex.

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Experienced Cloth Room Overseer for large coarse goods mill in Alabama.

Write "Clothroom," care Textile Bulletin,  
 P. O. Box 1225, Charlotte 1, N. C.

**WANTED**

Position as Overseer Weaving. 25 years' experience as overseer on both E and X Model Draper and C & K Looms. Age 56; now employed, but would like to make change. Sober; family man. References furnished.

Reply to "Y. D.," care Textile Bulletin,  
 P. O. Box 1225, Charlotte 1, N. C.

WANTED—Assistant Overseer of Spinning, large Alabama mill.

WANTED—Assistant Overseer of Carding, large Alabama mill.

WANTED—Assistant Overseer of Spool, Warp, and Slashing, large Alabama mill.

Write "D. M. C.," care Textile Bulletin,  
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Young man, age 38, married, sober, dependable and agreeable; I. C. S. graduate cotton, carding and spinning. Formerly textile inspector; 15 years' experience in spinning, carding, twisting, winding and spooling, with a record as hustler in spinning. Familiar with all numbers of yarns, roving, training new employees, production and cost, and know how to get along with people. Would consider small mill location with spinning or either entire plant overseer. Good references; go anywhere. Applicant has a good family and would not consider a liquor-head position, but would consider any small run down mill that really needs a hustler and offers an opportunity. Please allow time for a reply.

Write "Spinning," care Textile Bulletin,  
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● If you want a new job, if you are seeking someone to fill a position, the classified advertising department of Textile Bulletin is ready to help. The classified section is read by both employees and employers.



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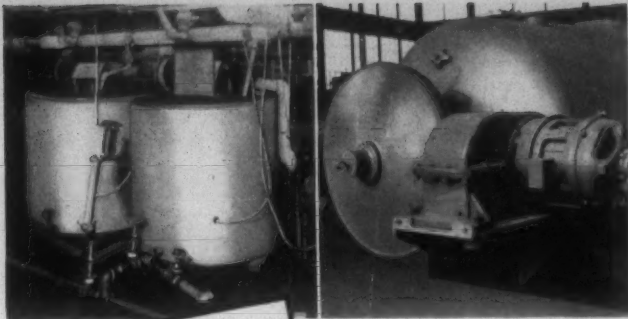


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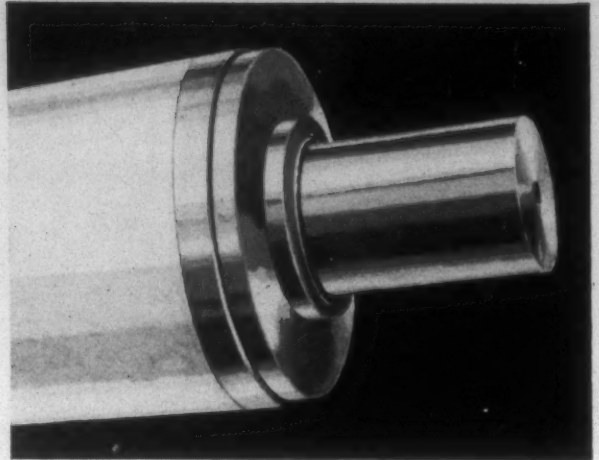
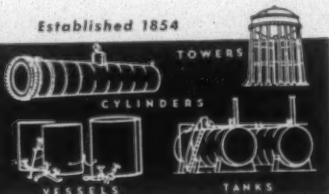
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# Before Closing Down

—TEXTILE INDUSTRY HAPPENINGS AS THE MONTH ENDED—

## PERSONALS

J. C. Cowan, Jr., president of Burlington Mills Corp., addressed the Spindale (N. C.) Rotary Club Sept. 20. Mr. Cowan began his textile career at Spindale.

Arthur Babbit has been named manager of Lane Cotton Mills, New Orleans, La., succeeding Allen Jones, who had held the position 15 months. Mr. Babbit has been doing engineering work for Lane since last November, and prior to that was connected with Clark Thread Co. in Georgia. Mr. Jones came to New Orleans from Muscogee Mfg. Co., Columbus, Ga.

J. Saunders Williamson has resigned as purchasing agent for Burlington Mills Corp. and has been replaced by Thomas A. Hunter, who has been connected with the Burlington purchasing department for some time. Mr. Williamson plans to go into business for himself. Mr. Hunter will be in full charge of all Bur-Mil purchasing activi-

ties, including raw materials. He will be assisted by C. M. Shaffer, who headed purchasing for the May-McEwen-Kaiser group of hosiery mills, now a part of the Burlington organization. Mr. Shaffer has been transferred from Burlington, N. C., to company headquarters at Greensboro, N. C.

Ernest Pfeiffer will become head of the fabric development department of Colonial Mills, Inc., effective Oct. 1. He will replace George Groh, resigned.

Ernest W. Heyder has joined Fulbright Laboratories, Inc., Charlotte, N. C., as director of research in the chemical and metallurgical division. He previously was connected with General Cable Corp., Rome, N. Y., as superintendent of that firm's plant control laboratory.

Lance Turner is joining the Textile Research Institute, Inc., as assistant to the director to act in a liaison capacity between the industry and the T. R. I. laboratory.

Paul C. Alford, formerly with the Institute of Textile Technology at Charlottesville, Va., has joined T. R. I. and the Textile Foundation as an assistant to the director for administrative duties.

S. C. Veney, formerly assistant manager of the Hazleton, Pa., plant of Duplan Corp., has been named manager of the firm's newly-created Southern division with headquarters at Greensboro, N. C. He will supervise the plants at Lincolnton and Winston-Salem, N. C., Cleveland, Tenn., and Grottoes, Va.

## OBITUARIES

**J. V. Moffitt, Sr.**, president of Dacotah Cotton Mills, Inc., and secretary and treasurer of Wannonah Cotton Mills Co., died Sept. 21 at Lexington, N. C. He was president of the Commercial Bank of Lexington, a leader of the Methodist Church and past president of the Lexington Rotary Club. Funeral services were held Sept. 23.

**William Charles Mast**, senior construction engineer for American Cyanamid Co. and well known in the textile chemical industry, died Sept. 17 in New York City. Burial services were held Sept. 20 at Mt. Holly, N. C.

## MILL NEWS

**GREAT FALLS, S. C.**—Republic Cotton Mills is constructing a hospital for the use of company employees which is expected to be completed by Jan. 1. John Bean, personnel director for Republic, which is a division of J. P. Stevens & Co., Inc., states that the eleemosynary institution will be controlled by an appointed board of directors.

**WAYNESBORO, VA.**—Operations will be suspended by Esmond-Virginia Co., Inc., as soon as materials now in process are run out some two or three months from now. The more than 250 employees will be laid off gradually. The blanket plant, controlled by Textron, Inc., contains 2,600 wool spindles and 100 looms which likely will be moved to some other plant operated by Textron.

**ANDERSON, S. C.**—Orr Cotton Mills, a division of M. Lowenstein & Sons, Inc., was host to 35 buyers of cotton goods recently. The group visited a farm to see cotton being picked, toured the textile plant and were guests at a luncheon.

**LANCASTER, S. C.**—Springs Cotton Mills has announced plans for a 40,000-spindle addition to its Lancaster plant, with engineering by Robert & Co. of Atlanta, Ga., and building by the Springs construction department. The unit, which will be adjacent to the present plant, will be windowless, air conditioned and illuminated by

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The portrait above shows the male section of the Boys family, which has its headquarters at Tuxedo, N. C. Seated, left to right, are: George W. Boys, vice-president of Green River Mills, Tuxedo; Robert W. Boys, president and treasurer of the textile manufacturing concern as well as father of the younger Boys; and, in wartime Navy lieutenant-commander's uniform, Milburn G. Boys, general manager of the engineering department for Employers Liability Insurance Co. at New Orleans, La. Standing, left to right: Ralph W. Boys, in Army major's uniform, technical superintendent for the Ruby Mills plant of United States Rubber Co. at Gastonia, N. C.; John W. Boys, assistant general manager for Hartford Steam Boiler Co. at Detroit, Mich.; Ernest M. Boys, superintendent of Green River Mills; Robert B. Boys, sales manager for Perfect Circle Corp., Detroit; and Lieut.-Col. Richard C. Boys, Air Force, Fort Leavenworth, Kan.



## BEFORE CLOSING DOWN

fluorescent fixtures. Spinning frames will be superdraft. It is reported that slashers will be of a new hot air type, and that looms will be the high-speed circular type. Construction will require more than a year.

ALBEMARLE, N. C.—The small weaving mill operated here by U. S. Burleson is being put up for sale. Equipment includes seven 40-inch, 16-harness looms, a winder and a warper.

FRANKLINTON, N. C.—The Vamoco Plant of Burlington Mills Corp. was host to some 85 persons at a recent banquet, during which the Burlington film, "Fabric of Our Lives," was shown. John Harden of Greensboro, N. C., Burlington's director of public relations, was the chief speaker.

GASTONIA, N. C.—More than 50 supervisors and safety committee members from Gastonia Combed Yarn Corp. plants celebrated a perfect three-month safety record at a dinner meeting Sept. 21. Certificates of merit were awarded for man-hours worked

without lost-time accidents to the Clara, Dunn and Armstrong plants in Gastonia, and the affiliated Irene Mills, Inc., at Taylorsville, N. C.

GREENVILLE, S. C.—Union Bleachery has appealed the 15-year-old tax case in which it seeks \$204,538.85 in taxes allegedly overpaid to the Federal Government in the '20s. In July the firm was awarded a judgment of \$1,732.95; now Union Bleachery is seeking the full amount from the Federal Fourth Circuit Court of Appeals.

## MEETINGS

The third national Materials Handling Show will be held at Convention Hall in Philadelphia, Pa., Jan. 10-14, according to Clapp and Poliak, Inc., the exposition management.

Committee D-13 on Textile Materials of the American Society for Testing Materials will hold its Fall meeting Oct. 13-15 at the Wardman Park Hotel in Washington, D. C., it is made known.

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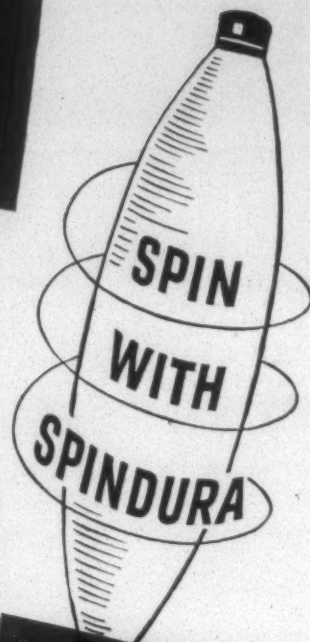
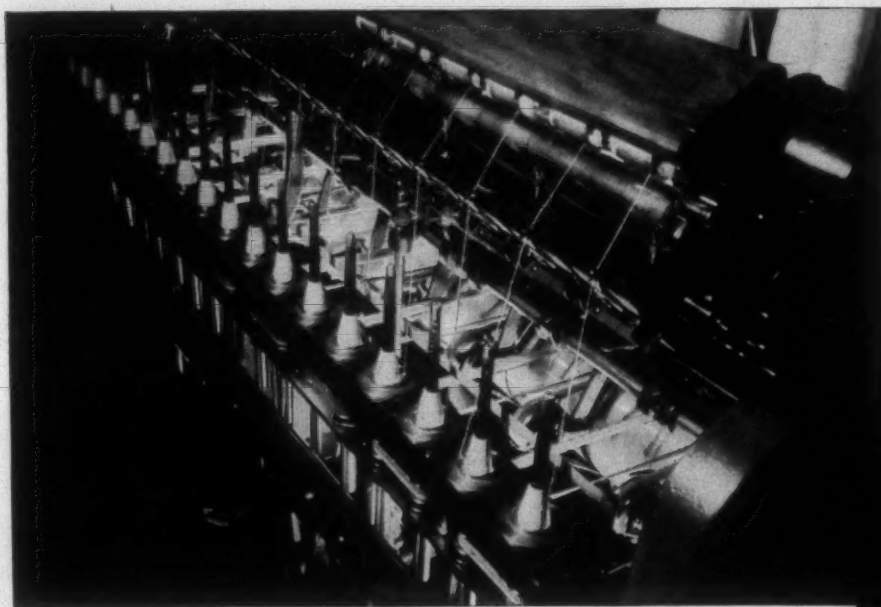
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